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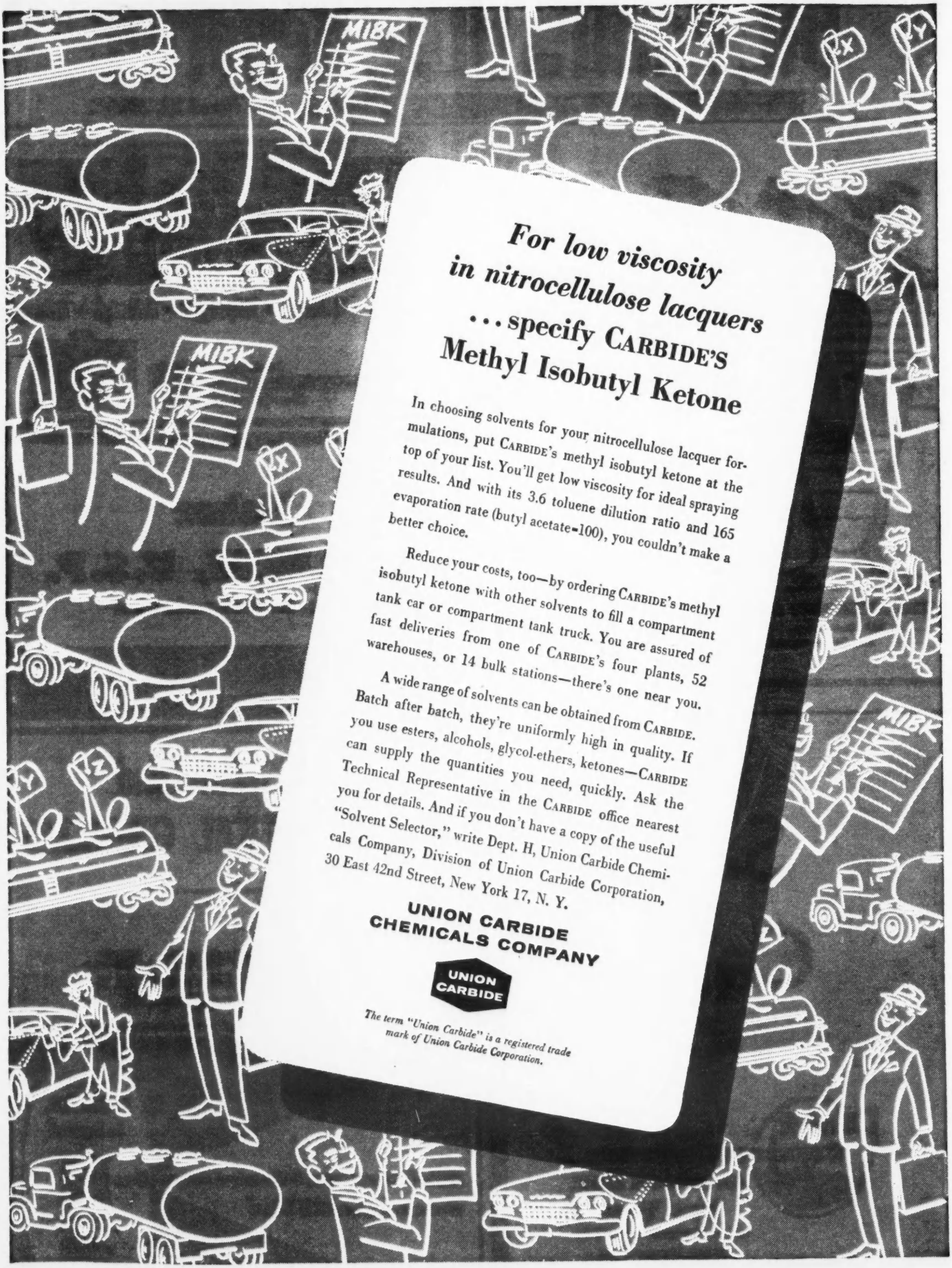

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Oil, Paint and Drug Reporter

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Morgantown Revisited

The government's long-idle Morgantown, W.Va., Ordnance Works has a prospective buyer. General Services Administration confirmed last week that a tentative agreement has been reached with General Dynamics Corporation for purchase of the plant.

GSA says the agreement is subject to General Dynamics' ability to negotiate satisfactory compacts for supplies of gas and other materials and services.

This is GSA's first reported bite since the agency announced last fall (OPD, 10/26/59) that it was going to take active steps to unload the big coke and chemical complex.

So far General Dynamics refuses comment on the matter, but it does not deny that negotiations have been under way.

Built for the government by E. I. duPont de Nemours & Co. in 1942, tenanted subsequently by Heyden Chemical Corporation and Olin Mathieson Chemical Corporation, the plant today represents about $13 million worth of real estate and productive facilities.

Original cost to the government was $65 million.

According to unconfirmed reports, General Dynamics has tentative plans to invest as much as $85 million to revamp the plant over a three-year period.

Rumor also has it that the New York company plans to embark by itself on a coal chemical venture recently projected with Philadelphia & Reading Corporation, and later abandoned. The Morgantown facilities are said to be suitable for such an enterprise.

The joint undertaking called for production of ammonia, nitric acid, ammonium nitrate, methanol, formaldehyde and other basic products.

Handling the transaction for GSA

—Continued on page 43

Hazardous Labeling Legislation May Quickly Turn Into a Melee As AMA, FDA Start Acting Up

The chemical industry unexpectedly may find it has a fight on its hands within the house commerce committee over the scope of the proposed law for labeling hazardous household products. The American Medical Association is renewing its appeal for broadening the legislation beyond sizes packaged for household use and for other changes in labeling requirements not in accord with the agreement on the bill between industry and the government.

In addition, the Food & Drug Administration is making another pitch for the addition of a Title II in the bill (HR 5260/S 1283) that would contain amendments to the food, drug and cosmetic act to strengthen the agency's authority over labeling of food, drugs and cosmetics. Drug producers, chiefly proprietary manufacturers, are opposing the new title.

AMA Unhappy With Two Bills

It is the view of the medical association that neither the house bill, which represents the original version of the industry's hazardous products labeling bill, nor the senate version, which contains the amendments agreed upon prior to last year's hearings before the senate committee, fully meet the problem facing persons who make use of the packaged chemicals for cleaning, polishing, decorating, etc.

AMA has given up the idea that all hazardous substances, including chemicals for commercial use, be subjected to controlled labeling but it does think the bill should extend to all hazardous substances "distributed as packaged chemicals for non-manufacturing purposes" as well as those "intended or suitable for household use."

This would apply to packages best suited for hotels, laundries, dry cleaners, etc.

Also, AMA believes the law should require warning symbols, such as the skull and crossbones, for various types of hazards associated with the more dangerous products, in addition to the key word "danger" proposed to be required, and that background colors on warnings be required for identifying various types of hazards involved.

Finally, AMA wants the same kind of labeling for packaged chemicals intended for export.

The association's views were given to the health and safety subcommittee of

—Continued on page 44

DIVISION HEAD: James G. Baldwin, named general manager of the western chemical division of Hooker Chemical Corporation, Niagara Falls, N.Y.

FDA Cocking a Three-Way Punch For Enforcement of Pesticide Laws

Food & Drug Administration is stepping up its enforcement of control laws in the agricultural chemicals field. Officials have just informed congress they plan three major moves: 1. To increase the spot checking of foods moving to the markets, 2. To improve and develop new methods of detection of residues, and 3. To expand the staff of field workers to keep tabs on the problems being raised by the growing use of farm chemicals.

Officials gave notice of their plans while appealing to a house appropriations subcommittee on the Department of Health, Education & Welfare money bill.

The bill is in support of a $2.7 million increase in FDA's funds for fiscal year 1961 to provide it with $16,850,000—its biggest budget in history.

Little Doubt on Getting Money

Questioning of officials, as disclosed in the hearings made public last week, indicate little doubt but that FDA will get all the money it is asking for. It would not be surprising to observers if this is one area where the house committee might go above the budget recommendations.

Chairman John E. Fogarty of Rhode Island brought out the fact that even with the increase of $2.7 million, FDA would still be $3 million short of doing a good job and added:

"We will see what we can do about it."

Commissioner George Larrick of FDA told the subcommittee that the pesticide residue situation "is a growing problem." This is not only because more farmers are using pesticides on more crops, he said, but also because new and more complex products are reaching the market all the time.

"As much as we need them—and I should like to emphasize our belief in their rightful rule as an aid to the farmer—we must not for one moment forget that virtually all pesticides are toxic to humans in some degree," he continued.

"Since their safety to humans depends largely on how they are used by the farmer, and since no enforcement agency could

—Continued on page 58

ADVANCED: G. J. Williams, promoted to a new position as assistant general sales manager of Dow Chemical Company, Midland, Mich. He had been sales manager of the plastics department.

Polypropylene Fiber Is in Beaunit's Future

Polypropylene fiber will be added to the productive roster of Beaunit Mills, Inc., New York maker of textile yarns and fibers. Word of the move follows close on the company's recent disclosure that it will manufacture nylon tire yarn.

Beaunit is an established producer of rayon cord ("Tyrex"), a material now under challenge from nylon for predominance in the tire filed.

Equipment for the polypropylene operation is scheduled for delivery next fall and will be started up by February, 1961, a spokesman for the firm reports.

The machinery will be installed at the

—Continued on page 43

Texas-US Is Expanding At Synthetic Rubber Unit

Texas-US Chemical Company has slated a 10 percent expansion of synthetic rubber copolymer production at Port Neches, Tex.

With completion expected late in 1960, the project will raise plant capacity to 156,000 long tons annually. The company is jointly owned by Texaco, Inc., and United States Rubber Company.

Capital Spending Keynotes Annual Chemical Reports

Record-high 1960 capital outlays feature this week's flurry of annual reports from chemical makers.

Chas. Pfizer & Co. says it will spend another $25 million in 1960 for capital additions, which is on a par with the $75 million spent during the last three years. The Brooklyn, N. Y., company's worldwide sales last year are reported at $253,672,721, only a shade shy of beating—ahead of time—the company's 1960 goal of $260 million.

A report from Continental Oil Company tabs 1960 investments at $120 million up from $99 million last year. New chemical ventures, such as "Alfol" and

—Continued on page 58

Carbide Tells Secret Of Brownsville Output

Union Carbide Chemicals Company today (March 21) is revealing for the first time just what it will make at its altered plant facilities in Brownsville, Tex. The major products will be: acetic acid, acetic anhydride and methyl ethyl ketone.

The New York-based division of Union Carbide Corporation reports that the chemicals will be produced in large quantities, but gives no specific figures at this time.

Output, says the division, will be aimed at filling the demands of the current chemical market, particularly the rapidly-growing surface coating, pharmaceutical and textile industries.

The Brownsville unit will produce other chemicals for Union Carbide, but acetic acid, acetic anhydride and methyl ethyl ketone will be the important ones.

Construction work on the alterations to the facilities is to begin immediately; completion is expected early in 1961. Costs will run in the neighborhood of $2.5 million.

Allied's Newest Boosts: Methanol, Formaldehyde

Hard on the heels of Allied Chemical Corporation's announcement of a big boost in fluorine chemical capacity (OPD, 3/14/60) comes word of an expansion in two other basic chemicals.

The New York company's nitrogen division will increase methanol potential by 50 percent and that of formaldehyde by 35 percent. Scene of the expansion is the division's South Point, Ohio, plant.

The new formaldehyde capacity will be used captively to increase Allied's production of urea-formaldehyde products. It's expected that the methanol will become formaldehyde.

Ethanol From CCC Corn? Synthetic Industry Howls

Will the government offer 30 million bushels of surplus corn to the fermentation alcohol producers? It seems a good bet to take place between April 1 and 15.

But the move is drawing heavy fire from the synthetic ethanol industry.

This was conceded by a Department of Agriculture spokesman last week, who told OPD that a great number of protests have been received since USDA's announcement of its intentions to sell the corn (OPD, 2/29/16).

One of the chief complaints against the move is that Commodity Credit Corporation, selling the corn to established fermenters at a price considerably beneath what the government paid in the first place, is, in effect, subsidizing the fermentation industry.

Nor does the fact that Publicker Industries, Inc.—largest domestic fermenter of alcohol—has arranged to buy 100 million gallons of Cuban blackstrap molasses take any of the sting out of the complaints.

Publicker, which closed the Cuban deal last week, gives no indication that it is satisfied merely to stick with molasses as a raw material. The company says it is very interested in the government's proposition to make the surplus corn available to established fermenters.

There's talk of the government being willing to get rid of its corn for as low as 60 cents a bushel. This, some industry sources say, is about the same as 7-cent blackstrap molasses—the price Publicker will pay Cuba.

Thirty million bushels of corn, if the fermentation industry gets hold of that

—Continued on page 58

DuPont, GM Were Favored In Stock Case, Gov't Claims

Federal Judge Walter LaBuy of the Chicago District Court has subordinated the interests of the public generally in order to protect the specific interests of stockholders in E. I. duPont de Nemours & Co. and General Motors Corporation. So says the Department of Justice in a petition filed with the Supreme Court of the United States appealing Judge LaBuy's ruling of last year in the GM-duPont antitrust case. That ruling rejected the government's plea that the chemical firm be forced to give up its stock in the motors concern.

Resting its appeal on questions of public policy rather than on matters of law, the department last week told the Supreme Court that while unnecessary burdens on innocent persons must be minimized, they cannot necessarily serve as an excuse for failing to apply the remedies that the facts and law require.

Thirty Days for a Challenge

Under court rules, thirty days are allowed the defendants to challenge appeals from the lower courts.

It is expected that petitions asking the court to reject the appeal and sustain Judge LaBuy's ruling will be filed with the court by duPont and General Motors later this month or early in April.

It was contended by the government that Judge LaBuy's ruling, which said duPont could continue to hold its GM stock while transferring the voting rights to duPont stockholders, instead of requiring divestiture of the stock, has raised a basic question:

Does the district court's judgment grant the relief necessary and appropriate to remedy the violation of the Clayton act resulting from duPont's acquisition and continued ownership of the GM stock?

From that basic question, the department added, it must also be questioned whether:

• The court misconstrued the Clayton act by holding that congress did not intend to say divestiture is a remedy to be

—Continued on page 55

Tall Oil Business Booms; Heyden Keeps Up With It

Heyden Newport Chemical Corporation will build a 24,000-ton-per-year tall oil refining plant at Oakdale, La. The unit is expected to go on stream in early 1961.

With tall oil consumption increasing an average 11 percent a year, the New York company feels a need to augment its present 36,000 tons of capacity at Bay Minette, Ala.

The Oakdale facility will convert crude tall oil to tall oil rosins, fatty acids and distilled oils.

Industry's consumption of crude tall oil—a product of the kraft paper sulfate process—should reach 300,000 tons this year as against 102,500 tons in 1949, according to a report from the company.

Farm Products Target Of Utilization Studies

Research on utilization of farm products is being stepped up by the Department of Agriculture as part of the government's attack on the farm surplus problem, Secretary of Agriculture Ezra Taft Benson told the Chemurgic Council at its twenty-fifth annual meeting last week in Washington, D. C.

He said that he is recommending to congress that this research be increased to $18.4 million in the new fiscal year beginning July 1.

In addition, about $4 million more is proposed to be spent during the next five years for utilization of research overseas. Current spending on research by the department runs about $16 million a year.

Mr. Benson said that the agricultural scientists have their eyes "on the three

—Continued on page 58

Japanese Enzyme Maker Names Biddle Sawyer Agent

A Japanese manufacturer of enzymes reports its entry into the American market with a new line of crude and purified proteolytic and diastatic enzymes.

Appointed sales agent for Nagase & Co., Ltd., the enzyme maker, is Biddle Sawyer Corporation, New York. Biddle is offering commercial quantities of crystalline proteases and diastases—heretofore only available in research quantities.

Polymer Development Firm Organized in Massachusetts

Jacob Lichman, Sydney Comins and Adrian Comins have formed Key Polymer Corporation in Lawrence, Mass. The company will develop and produce adhesives and coatings from epoxy and polyurethane polymers.

Mr. Lichman was formerly the development manager for the coatings and adhesives department of Borden Chemical Company. The Comins family has a brake lining manufacturing and distributing business in Lawrence.

Carter Completes Building

A new manufacturing and office building for Carter Products, Inc., in Cranbury, N. J., has been completed by Wigton-Abbott Corporation. The one-story building contains space for the production of Carter's complete line of products, an office area, warehouse and packaging facilities, a control laboratory and an employee cafeteria.

The Week's Price Changes

Bonemeal, Dried Blood, Mercury, Soybean Meal Advanced. Copra, Linseed Meal, Oiticica, Safflower Oils Reduced.

Prices Advanced

Bonemeal, $5 per ton (p. 41).
Casein, Argentine, ½c. per lb. (p. 54).
Corn oil, crude, ⅛c. per lb. (p. 56).
Refd., ⅛c. per lb. (p. 56).
Dried blood, $5 per ton (p. 41).
Grapefruit oil, 15c. per lb. (p. 51).
Greases, ¼c.-⅜c. per lb. (p. 56).
Lard, cash, 1/10c. per lb. (p. 56).
Mercury, $1 per flk. (p. 34).
Oleo oil, ½c. per lb. (p. 56).
Peanut oil, crude, ⅛c. per lb. (p. 56).
Refd., ⅛c. per lb. (p. 56).
Sandalwood oil, 50c. per lb. (p. 51).
Senega root, 25c. per lb. (p. 46).
Soybean meal, $2 per ton (p. 56).
Tallow, edible, ¼c. per lb. (p. 56).
Inedible, ¼c.-⅜c. per lb. (p. 56).
Tankage, 50c. per unit-ton (p. 41).
Tin metal, 1c. per lb. (p. 34).
Salts, ½c.-3.5c. per lb. (p. 34).
Tung oil, ¼c. per lb. (p. 56).

Prices Reduced

Cocount oil, crude, ⅜c. to ½c. per lb. (p. 56).
Copra, $2.50 per ton (p. 56).
Linseed meal, $1.50 per ton (p. 56).
Oiticica oil, ¼c. per lb. (p. 56).
Safflower oil, 3/10c. per lb. (p. 56).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100=1949 average)

Mar. 18, 1960	Mar. 11, 1960	Mar. 20, 1959
110.66	110.40	110.58

Grace Film to Make a Bundle?

W. R. Grace & Co.'s Cryovac Division is confident it can make a bundle in the packaging field with its new irradiated plastic film. Known as "Type L," it is made by having an electron beam generator bombard polyethylene with up to two million volts. This changes the molecular structure of the polymer and makes possible a new and different plastic film. One of the most striking characteristics which it acquires by the irradiation process is a tremendous high-shrink energy.

Currently finding its way into the packaging of skinless frankfurters (over 10 million frank packages used Cryovac's "Type L" film last year), cut-up poultry and bakery products, the new skin-tight packaging material has raised high hopes in the Cryovac management for these potential markets:

Fruits and vegetables (as a shrink-sleeve packaging for lettuce, potatoes, cauliflower, broccoli and celery), as a standard overwrap on candy packages, paper products such as desk calendars, record covers, pizzas and window shades.

In the course of test marketing, Cryovac has sold more than a million pounds of the new film for packaging meat and poultry at a price of 3 cents per 1,000 square inches.

This, the division points out, is comparable in cost to other packaging films for

—Continued on page 52

AT THE HELM: George J. Webster, elected president and general manager of United Carbon France SA, French subsidiary of United Carbon Company, New York.

Eastman Kodak Starts Up Polyester Film Installation

Eastman Kodak Company will place its new polyester film-base plant on stream today (March 21).

Located at the company's Rochester, N. Y., manufacturing center, the unit has been two years under construction.

Principal product of the plant will be "Estar" film base, designed primarily to give greater dimensional stability for color reproduction in printing processes. The film is said to be super-tough.

The plant's first product will be "Kodalith Ortho" film, type 3, for the graphic arts, available in standard sheet sizes and all roll sizes.

Reichhold Completes Deal For Acquisition of Alsynite

Reichhold Chemicals, Inc., White Plains, N.Y., has completed acquisition of Alsynite Company of America for an undisclosed number of shares of Reichhold common stock, following the approval of Alsynite stockholders. The company will operate as the Alsynite Division of Reichhold.

The division will continue to manufacture and sell plastic panels reinforced with glass fiber mat, and other building and construction products and material.

Index to News and Market Reports

Association News

Cosmeticians Book Kinter..... 55
Farm Products Study Under Way..... 4
GATT Causes an Alert..... 7
MCA Meeting Set..... 7
NPVLA Appoints Elliott..... 7

Government News

Coaltar Chemicals Comeback Seen..... 5
DuPont, GM Seen Favored..... 4
Ethanol From Corn Brings Protest..... 3
FDA Sharpens Pesticide Enforcement.... 3
Food Additives Extensions Granted..... 5
Hazardous Labeling Faces Hassle..... 3
Morgantown Revisited..... 3
US Stockpile Set at $8.4 Billion..... 5

Industry News

Alkyl Amines Plant to Be Built..... 5
Allied Reports Expansions..... 3
Capital Boosts Keynote Annual Reports.. 3
Carbide Reveals Brownsville Plans..... 3
Carter Completes Building..... 4
Chemical Concentrates Acquires Firm... 7
Chemical Marketing: Same Old Problem 7
Eastman Starts Up Polyester Film Plant 4
Grace Making New Plastic Film..... 4
J-M Sees New Asbestos Market..... 5
Kiefer Is Dead..... 58
Nopco Chemical Elects..... 49
Phenolic Usage Seen Impressive..... 7
Plant Food Sales Gain In '59..... 7
Polak Issues Flavor List..... 52
Polyethylene Going Into Toys..... 5
Polymer Development Firm Set Up..... 4
Polypropylene Fiber in Beaunit's Future. 3
Reichhold Completes Alsynite Deal..... 4
Tall Oil Business Booms..... 4
Sohio Opens Asphalt Unit..... 5
Texas—US Expanding..... 3

International News

Dow Corning Forms Overseas Units.... 5
Heyden Buys Into Dutch Firm..... 5
Jap Firm Names Biddle Sawyer..... 4
Phenol Venture Reported..... 5
Soviet Fertilizer Plans Told..... 5

Personnel News

Columbian Carbon Unit Appoints..... 5
Dow Chemical Appoints Williams..... 3
Goodrich-Gulf Appoints Hands..... 5
Hooker Names Baldwin..... 3
Nopco Elects Top Officials..... 4
Sinclair-Koppers Fills Top Posts..... 7
Union Carbide Names Browning..... 7
United Carbon Names Webster..... 4

Market Reports

Acids 34
Agricultural Chemicals 41
Aliphatic Organics 39
Antioxidants & Antiozonants 45
Aromatic Chemicals 51
Botanical Drugs, Gums 47
Chelating Agents 45
Chemical Specialties 45
Coal Chemicals 42
Coatings Materials 54
Drugs 46
Essential Oils 51
Fats & Greases 57
Fertilizer Materials 41
Fine Chemicals 46
Heavy Chemicals 34
Industrial Organic Chemicals..... 39
Metals, Nonferous 34
Naval Stores 55
Oil Cake and Meal 57
Oils 56
Paint Materials 54
Pesticides 41
Petrochemicals 39
Petroleum Derivatives 53
Protective Coatings Materials 54
Spices 52
Trade Name Chemicals 45
Waxes 57

General Features

Advertisers' Index 63
Association Meeting Dates..... 7
Bids Wanted 62
Classified Advertisements 62
Coal Chemical Output 42
Crude Oil Stocks 53
Current Market Quotations 11
Editorials 9
Imports 63
Obituaries 58
OPD Price Index 4
Washington Talks It Over 9

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STEPS UP: Fred C. Hands, appointed director of procurement for Goodrich-Gulf Chemicals, Inc., Cleveland, Ohio. He had been manager of the synthetic rubber plant in Institute, W. Va.

Phenol in Argentina: Hooker's New Venture

Out of Hooker Chemical Corporation's sleeve rolls an Argentine phenol venture, long a-coming but just-now announced. The Niagara Falls, N. Y., firm says it has joined forces with Atanor, big Argentine chemical maker, to form Duranor, Industrias Quimicas Sociedad Industrial y Commercial.

Before Duranor gets into business, however, it will need some Export-Import Bank financing. A substantial loan is now being negotiated, Hooker reports, and a decision by the bank is expected shortly.

Under the agreement between Hooker and Atanor, signed three months ago, the American company initially has a minority interest but with an option to purchase enough Duranor stock to bring its interest to a maximum of 50 percent.

Present plans call for Duranor to build a phenol plant at one of Atanor's two established plant locations: either at Munro, a suburb of Buenos Aires, or at Rio Tercero, in the Province of Cordoba, 450 miles northwest of the Argentine capital.

Atanor's full name is Atanor, Compania Nacional para la Industria Quimica, SAM. The firm manufactures phenolic resins, a full line if insecticides, some basic alkalis and the major petrochemicals.

Using Hooker's phenol process, the Duranor unit will have capacity to produce twenty-five metric tons of the chemical per day.

Johns-Manville Sees Asphalt As Half-Million Ton Market

A new market that could absorb 500,000 tons of asbestos fiber a year is being researched by Johns-Manville Corporation. The market is road construction materials.

Addition of just 2 or 3 percent of asbestos fiber to asphalt paving mixtures can result in substantial benefit to paving life, performance and maintenance, the New York company reported to its stockholders last week.

Significance of such a market, the company says, may be measured in relation to its present Free World production of about 1.5 million tons of asbestos fiber a year.

Sohio Opens Asphalt Unit

Standard Oil Company (Ohio) has formally opened a new asphalt producing center at its Lima, Ohio, refinery. The $300,000 facility is rated to produce 5 to 10 million gallons of asphalt yearly.

Coaltar-Petrochemicals Tussle Expected to See Coal Lag at First And Then Start a Comeback

In the race to keep abreast of world-wide demand for chemical raw materials, the cokeoven industry will lag for a while, losing much ground to petrochemicals. But a comeback is in store for coal chemicals, according to a study just made by the Bureau of Mines. As prices of petroleum and natural gas rise, the report says, ways of extracting coal chemicals by methods now in the development stage will become economic, thus providing new supplies.

The Mines bureau doesn't say how long it will be before petroleum and natural gas supplies sink low enough to trigger coal's resurgence. But the outlook pictured for the present decade finds the accent on petrochemicals everywhere but in the Soviet Union.

Steel Will Be the Key

In the Free World, the bureau says, steel output will continue to rise, making for an increase in coke consumption and higher output of coal chemicals. This will be largely offset, however, by improvements in blast-furnace technology, tending to reduce cokeoven requirements.

The upshot, the government agency says, will be a small cokeoven gain while petrochemicals boom.

Coal's second fiddle is already evidenced in production figures covering the decade of the '50's.

Starting in 1940 as the only source of toluene, cokeovens in 1958 supplied only about 12 percent of total US production, according to the Bureau of Mines figures. In 1944, cokeoven xylene was still half of US output, but in 1958 the coaltar material accounted for only a fragment of output.

At the start of the '50's, cokeovens were supplying approximately 17 percent of domestic ammonia production. In 1958, their share had sunk to about 200,000 metric tons in a total of 3,700,000 tons.

Turning to coal's long-term prospects in the US, the bureau notes that considerable research and development work on various low-temperature carbonization processes has been done. But few have prospered economically, the agency reports. Finding markets for byproducts of the process is said to be the key to commercial success.

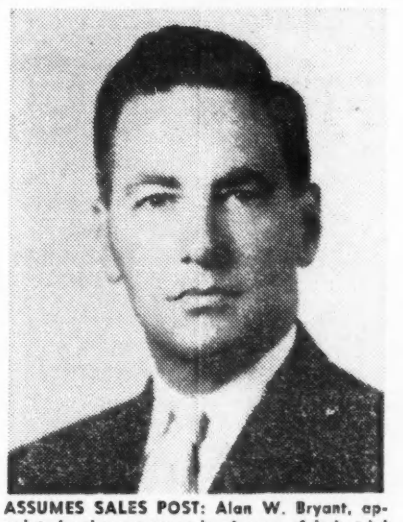
Two other processes being researched are coal hydrogenation and the complete gasification of the material. These will be economically feasible, the report adds, only when petroleum and gas start to flag under the pressure of decreasing reserves.

US Strategic Stockpile Reported at $8.4 Billion

Strategic and critical materials in six stockpiles held by the government totaling $8.4 billion were reported last week by the joint congressional committee on reduction of non-essential federal expenditures, headed by Sen. Harry F. Byrd of Virginia.

Of the total, $6.2 billion is in the national stockpile for which the commodity breakdown is classified. Combined figures from the other five inventories show commodities (in all grades and forms) leading in cost value as follows:

Nearly 4.9 million tons of aluminum, bauxite, etc., at a cost of $442 million; more than 84 million pounds of tungsten at a cost of $341 million; more than 4 million tons of manganese, manganese ores, etc., at a cost of $275 million; more than 2 million tons of chrome, chrome ores, etc., at a cost of $229 million; 28,000 tons of titanium at a cost of $183 million; nearly 150 million pounds of nickel at a cost of 132 million, and more than 9.9 million carats of diamonds at a cost of $127 million.



ASSUMES SALES POST: Alan W. Bryant, appointed sales manager in charge of industrial products by the carbon black and pigment division of Columbian Carbon Company.

Alkyl Alkanol Amines Will Get a New Home

Pennsalt Chemicals Corporation, intent on tripling its production of alkyl alkanol amines, has started erection of a new producing plant at its works in Wyandotte, Mich. The Philadelphia-based company estimates the cost of the new facility at $1.5 million and expects to be on stream by the end of the year.

Pennsalt has been supplying alkyl alkanol amines commercially for more than twenty-five years. The firm is reportedly the first to manufacture a complete line of the parent alkyl amines of one through five carbon atoms used in making these derivatives.

The plant will use an improved, completely continuous process. Designed for a maximum inversatility, it will produce six or seven different alkyl alkanol amines. Feed stock for the process will be Pennsalt amines and ethylene oxide. The entire output will go to customers.

—Continued on page 53

Dow Corning Forms Units In Switzerland and Panama

Dow Corning Corporation, Midland, Mich., has formed two overseas subsidiaries: Dow Corning AG, of Basel, Switzerland, and Dow Corning International SA, of Panama.

Dow Corning AG will have a paid-in capital of 2 million Swiss francs (about $460,000). It will finance and manage certain overseas interests of Dow Corning Corporation but will not engage in manufacturing operations in Switzerland.

Dow Corning International SA will handle the overseas sales and service of the silicone products of Dow Corning Corporation, and will have its first office at Zurich, Switzerland.

Food Additives: FDA Extensions To Nearly 500

Food & Drug Administration has granted one-year time extensions—until March 6, 1961—to nearly 500 food container linings, adhesive materials, direct and indirect food additives.

The agency says that these materials are being allowed more time because they fulfill the formula laid down under the food additives law: "No undue risk to the public health is involved."

Almost 300 container linings have been given an additional year for the gathering of pertinent test data. As described by the agency, they are "substances migrating to food from linings of containers used in food packaging."

This list of exemptions encompasses some twenty-eight major chemical groupings as follows:

Breakdown of Container Exemptions

Drying oils, including their derived triglycerides or fatty acids; reconstituted oils from triglycerides or fatty acids; synthetic drying oils; natural fossil resins; rosin derivatives; phenolic resins; polyester resins; epoxy resins.

Coumarone-indene resin; petroleum hydrocarbon resin; terpene; urea-formaldehyde; triazine-formaldehyde resins; modifiers for oils and alkyds, including polyesters; vinyl resinous substances; cellulosics; styrene polymers.

Polyethylene, branched and linear; polypropylene; acrylics and copolymers; elastomers; driers; waxes; plasticizers; release agents; pigments and colorants; miscellaneous materials, and surface lubricants.

FDA notes that the original request for container lining extensions included the following materials: maleic acid adducts, bisphenol-epichlorohydrin combined with allyl ether of mixed methylol phenols, bisphenol-epichlorohydrin combined with reactive polyamides, mixed acrylates, chlorinated rubber, diethylene glycol, ethylene glycol and silicones of not less than 300 centistokes viscosity.

It has not taken any action on these additives, the agency says, because it first wants to evaluate additional data that will specifically identify the particular substance for which the extensions are requested.

More than 175 adhesives have been granted one-year extensions. The agency says it did not act on the additives below, as originally requested, because it wants to weigh more data on the specific sub-

—Continued on page 38

Heyden Newport Int'l Buys Stock of Netherlands Firm

Heyden Newport International Corporation, a wholly-owned subsidiary of Heyden Newport Chemical Corporation, New York, has purchased all the capital stock of N. V. Transicol, a Netherlands corporation established at Rotterdam and Geertruidenberg.

Transicol is a manufacturer of paper size in Holland, as well as a supplier to the Belgian market. Studies are now in progress looking to the manufacture of other existing products of Heyden Newport in Holland by Transicol.

Polyethylene Kid Stuff? It Sure Is, Says Phillips

Phillips Chemical Company says 14 million pounds of linear polyethylene this year will be kid stuff.

The Bartlesville, Okla., affiliate of Phillips Petroleum Company is talking about the toy market, which grabbed up 7 million pounds of the tough, durable resin last year and looks to go double in '60.

Blow-molding makes the difference that permits the big boost, says Phillips. All manner of toys, with new and ingenious shapes, are now possible, the company explains.

This is just another plus on top of linear polyethylene's nursery room advantages. The toys are unbreakable, non-toxic and can be boiled clean, like new.

Soviet Fertilizer Plans Need Pinch of Salt: USDA

Soviet Russia plans to triple its output of mineral fertilizers by 1965.

In relaying this information to the trade, Department of Agriculture is careful to add a pinch of salt. Grandiose plans on the other side of the Iron Curtain have a way of thinning down in the execution, notes USDA.

The Russians' sixth five-year plan called for production of 19.6 million metric tons of mineral fertilizer by 1960. The goal was subsequently trimmed to 13.5 million tons, USDA recalls. And the year is far from over.

Nevertheless, the Russians mean business, and USDA expects them at the least to double output of the fertilizers during the next five years.

For the Soviets have admitted that success in the fertilizer program will be a key to achieving their ambitious goal of increasing gross agricultural production by 70 percent during the seven-year plan ending in 1965.

The Russian blueprint, as read by USDA, charts a path to 35 million metric tons of fertilizer output. During the first years of the plan period, production hikes are to be relatively modest.

"By 1965, however," the department reports, "the annual increment to production will be more than four times as great as in the early years, as new factories are brought into production and existing facilities modernized."

Here are some details from the Soviet blueprint:

- Nitrogen fertilizer output will start up in Byelorussia, the Baltic republics and in the North Caucasus, using natural gas as raw material.
- In the central zones of the country, existing plants for production of nitrogenous fertilizers, superphosphate and ground

—Continued on page 55

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GATT Causes an Alert

Synthetic Organic Chemical Manufacturers Association has put its members on alert. Scene of the danger is Geneva, where the forthcoming General Agreement on Trade and Tariffs session may bring bad news for US chemical makers unless action is taken now.

SOCMA was happy to tell its members last week—through president Samuel G. Baker—that at least one snare has been eliminated. Tariff Commission has yielded to industry objections against granting basket clause concessions at the Geneva meeting. Concessions will be made only on individual items, Mr. Baker reports.

Unhappily, rumor has it that the concession list includes hundreds of chemicals. SOCMA's president wants to see the organization act on the assumption that rumor has it correctly.

"Every item on the list, however long, must be protested if of interest to this association or the duty will certainly be reduced." That's SOCMA's warning.

Each company concerned should appoint a key man to argue its case in Washington, Mr. Baker suggests. From those appointed, SOCMA will select a special committee to plead on behalf of the organization.

In this way, SOCMA hopes to have the chemical items off before publication of the list. So much from SOCMA.

At the Washington end of the tariff game, things are also popping. From the Committee of Reciprocity comes an invitation to chemical producers to submit views on how US makers are being treated abroad.

Specifically, the committee wants to know in what way other countries

—Continued on page 49

Chemical Commercialization Always the Same Old Thing, CCDA's Drama Makes Clear

Everybody has about the same problems in commercialization of a new product. But nobody has a pat answer for these problems. This situation was presented in dramatic form before the New York meeting of the Commercial Chemical Development Association last week. In a kind of morality play entitled "Problems and Strategy of New Product Commercialization," the officers of an ephemeral firm—"Commercial Chemical Corporation"—traced a program for "Solvent X" from its inception to its introduction in the market.

And most of the problems and pitfalls explored by the development group within the imaginary concern had universal significance judging from the empathic roars of the groundlings.

Cast of Characters

Lead role in the drama was taken by CCDA's president-elect, Dr. James G. Affleck of American Cyanamid Company, who acted as director of commercials development.

Right off the bat, Dr. Affleck made it clear that none of panel was speaking as an employee of his company. "We are here to play roles," he pointed out, "and if we seem dumber than we really are, it is to get some reaction from our consultants [the audience]."

Richard F. Messing, of Arthur D. Little Company, and director of research for "Three C," introduced the solvent and described its characteristics. His immediate request for four men and $100 thousand for further work elicited sympathetic demonstrations from the floor.

J. W. Libby, jr., of E. I. duPont de Nemours & Co., played his role of sales director to the hilt. "All right," he retorted," somewhat bitterly, "I'll go out and sell an extra 1,600 tons of chlorine to cover your expenditures. I've done it before and I'll do it again."

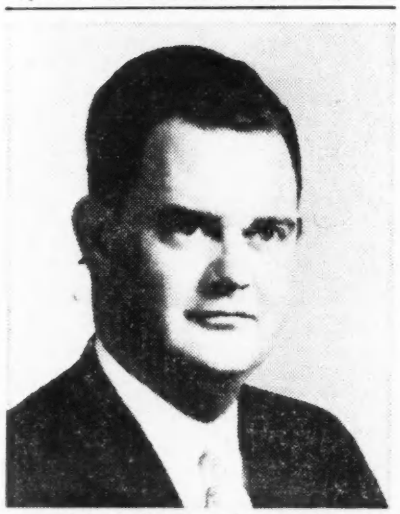
Thus the drama unfolded, with Clayton F. Ruebensaal, of Texas-US Chemical Company, in his role as director of engineering, coming under research director Messing's fire more than once for "gold-

—Continued on page 44

Dr. James G. Affleck

Phenolic May Be an Old Resin But It's Behaving Like a Youngster

The oldest synthetic plastic is proving to be the liveliest, says a spokesman for Union Carbide Plastics Company. He means phenolic, the resin that is closest to Carbide's heart because it was developed by the plastic division's corporate predecessor, Bakelite, half a century ago. Talking on one of Carbide's favorite topics in an interview last week, Richard H. Bruce, product sales manager for the resin, predicted a rosy future based on "a hard core of secure applications."



IN OFFICIAL POST: Jackson B. Browning, named a vice-president of Union Carbide Development Company, a division of Union Carbide Corporation, New York. He had been in the patent department since 1946.

Sales topped the half-billion mark in 1959, Mr. Bruce notes—an impressive 23 percent increase over 1959 and more than double the figure registered ten years earlier.

Industry leaders expect a 5 to 10 percent sales increase in 1960, he reports, endorsing it with a prediction of a "steady climb throughout the sixties."

Where's that hard core?

"Without phenolic as a dielectric," Mr. Bruce replies, "there could be no electrical, automotive, radio and television industries as we know them today."

"Phenolic," he goes on to say, "gives brake linings the thermal resistance to control modern cars; its use in grinding wheels is essential to metal fabrication."

Here's a core, says Mr. Bruce, that af-

—Continued on page 58

Chemical Concentrates Buys Up Veneer-O-Wax

Chemical Concentrates, Fort Washington, Pa., has just purchased Veneer-O-Wax Corporation, Philadelphia.

To take care of added business expected from the acquisition, the company is expanding its laboratory facilities at Fort Washington. Veneer-O-Wax and its subsidiary, R & R Chemicals, will be made integral parts of Chemical Concentrates, which is a division of Baker Industries, Inc.

MCA Meeting Set

Manufacturing Chemists' Association will hold its eighty-eighth annual meeting June 9 to 11 at the Greenbrier hotel, White Sulphur Springs, W. Va.

Sinclair-Koppers Elects Its List of Top Officials

Sinclair-Koppers Chemical Company, newly-organized affiliate of Sinclair Oil Corporation and Koppers Company, now has its top officers.

They are: president, John A. Scott, and board chairman, David L. Eynon, jr., elected last week at the first board meeting in Pittsburgh, Pa.

Other officers chosen are: vice-presidents, C. W. Hardell and Carl H. Pottenger; secretary, John M. Crimmins; assistant secretaries, Mr. Hardell, T. C. Cochran and J. von Bevern; treasurer, J. P. Downer; assistant treasurers and assistant secretaries, R. J. Hein and K. C. King.

Named to the board are: Mr. Scott, R. E. Howe and E. J. Anglin, for Sinclair; and Mr. Eynon, Walter P. Arnold and James M. Veeder, for Koppers.

Plant Food Sales Up Sharply in Past Year

The plant food industry pushed up its sales of primary nutrients by 13.6 percent during the crop year ended June 30, 1959. A total of 7,396,000 tons of nitrogen, phosphate and potash was contained in the 25,143,000 tons of fertilizers and sold during the year, says a preliminary report of the Department of Agriculture.

The gain in nutrient sales amounted to 884,000 tons, against an overall fertilizer increase of 2,627,000 tons.

Mixed fertilizers made up 63.3 percent of the total tonnage consumed. It was the first year since 1952-53 that an in-

—Continued on page 49

NPVLA Appoints Elliott As Successor to Kiefer

In an interim appointment, Lowell A. Elliott has been named acting executive vice-president of the National Paint, Varnish & Lacquer Association. He succeeds Laurence Kiefer, who died last week (see obituary on page 58).

Succeeding Mr. Elliott as director of the chemical coatings division is Robert A. Roland, former assistant director of that division.

Association Meetings

Air Pollution Control Association, annual meeting, Netherland-Hilton hotel, Cincinnati, Ohio, May 22-26.

American Chemical Society, national meeting, Cleveland, Ohio, April 5-14.

American Institute of Chemists, annual meeting, Radisson hotel, Minneapolis, Minn., May 12-14.

American Oil Chemists' Society, annual meeting, Baker hotel, Dallas, Tex., April 4-6.

American Pharmaceutical Association, annual meeting, Shoreham hotel, Washington, D. C., August 14-20.

American Zinc Institute, annual meeting, Chase-Park Plaza hotels, St. Louis, Mo., April 7-8.

Animal Health Institute, annual meeting, Shoreham hotel, Washington, D. C., April 17-19.

Association of Consulting Chemists & Chemical Engineers, dinner and forum, Shelburne hotel, New York, April 19; annual meeting, Shelburne hotel, New York, October 25.

Association of Food & Drug Officials, annual conference, Baker hotel, Dallas, Tex., June 5-9.

Association of Southern Feed & Fertilizer Control Officials, annual meeting, Riverside hotel, Gatlinburg, Tenn., June 21-22.

Chemical Market Research Association, annual spring meeting, Biltmore hotel, New York, May 17-18; annual fall business meeting, Pittsburgh Hilton hotel, Pittsburgh, Pa., November 9-10.

Chemical Specialties Manufacturers Association, midyear meeting, Drake hotel, Chicago, May 16-18.

Drug, Chemical & Allied Trades Association, annual meeting, Sagamore hotel, Bolton Landing, Lake George, N. Y., September 15-18.

Electrochemical Society, LaSalle hotel, Chicago, May 1-5.

Federation of Societies for Paint Technology, annual meeting, Sherman hotel, Chicago, October 31-November 2.

Lead Industries Association, annual meeting, Chase-Park Plaza hotels, St. Louis, Mo., April 6-7.

Manufacturing Chemists' Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 9-11.

National Agricultural Chemicals Association, annual meeting, Del Coronado hotel, Coronado, Calif., September 27-29.

National Foreign Trade Council, national meeting, Waldorf-Astoria hotel, New York, November 14-16.

National Paint, Varnish & Lacquer Association, annual convention, Drake hotel, Chicago, October 27-29.

National Petroleum Association, semi-annual meeting, Sheraton-Cleveland hotel, Cleveland, Ohio, April 20-22.

National Plant Food Institute, annual convention, Greenbrier hotel, White Sulphur Springs, W. Va., June 12-15.

Oil Trades Association of New York, Waldorf-Astoria hotel, New York, March 23.

Parenteral Drug Association, scientific meetings, Warwick hotel, Philadelphia, April 29; Edgewater Beach hotel, Chicago, June 24; annual convention, Statler hotel, New York, October 19-21.

Pharmaceutical Manufacturers Association, annual meeting, Boca Raton hotel and club, Boca Raton, Fla., April 4-7.

Pulp Bleaching Conference, sponsored by Technical Association of Pulp & Paper Industry, Edgewater Beach hotel, Chicago, June 14 to 16.

Society of the Plastics Industry, western sectional conference, New Riviera hotel, Palm Springs, Calif., April 8-9; Canadian section conference, London hotel, London, Ont., April 25-26; national conference and annual meeting, cruise on the Queen of Bermuda, May 7-13.

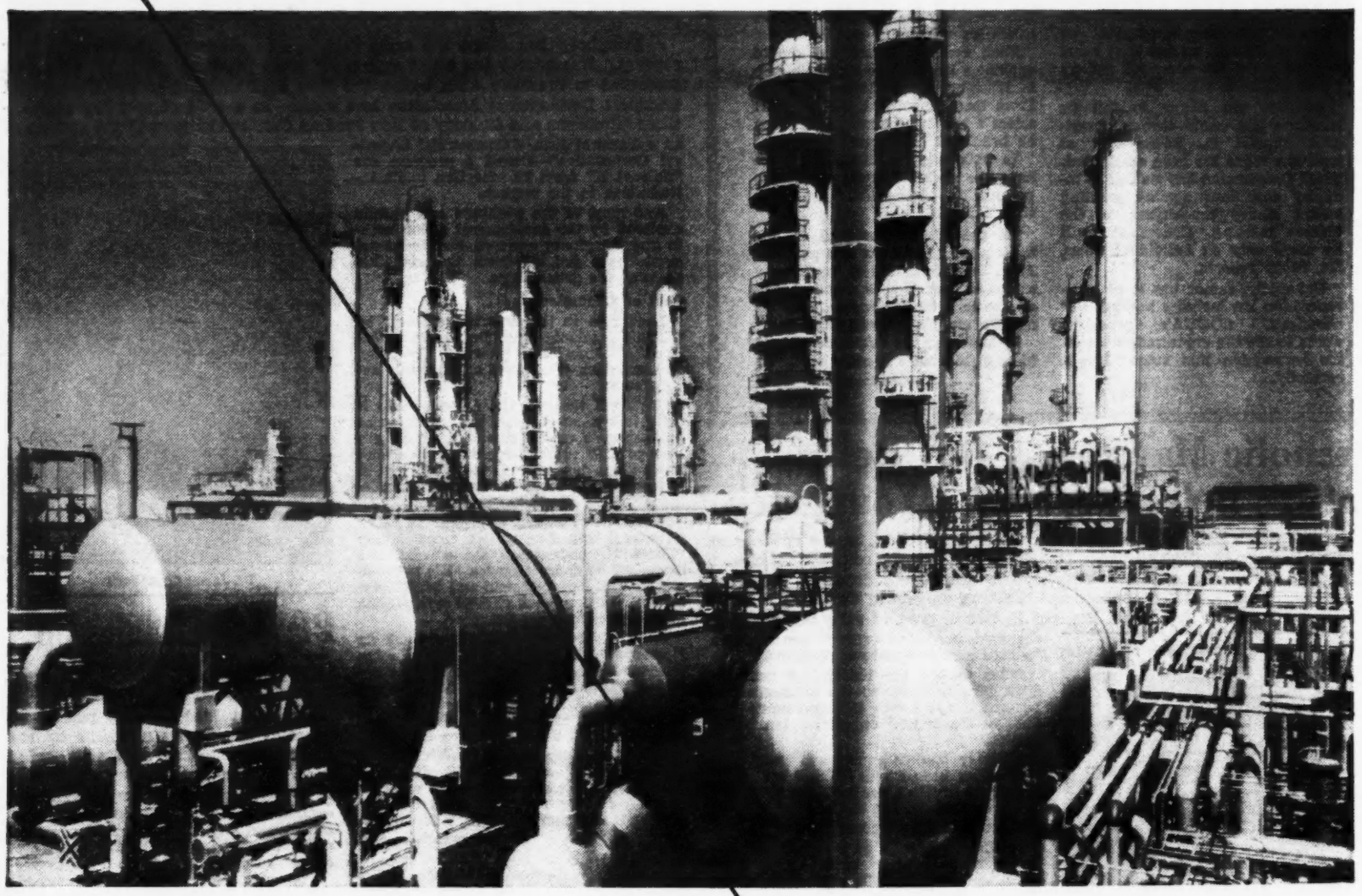
Stanford Research Institute, symposium on chemical reactions in the lower and upper atmosphere, Mark Hopkins hotel, San Francisco, April 18-20.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, April 12.

Textile Research Institute, annual meeting, Commodore hotel, New York, March 24-25.

Toilet Goods Association, scientific section, spring meeting, Waldorf-Astoria hotel, New York, May 11; annual meeting, Poland Spring House, Poland Spring, Maine, June 27-29.

tank-car delivery of DIISOBUTYLENE



Now in its third successful year of volume production, this Petro-Tex trimethylpentene finds important use in detergent intermediates, anti-oxidants, etc. But its reaction possibilities—such as chlorination and hydrolosis to isooctenyl alcohol—are far from fully explored.

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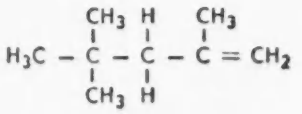
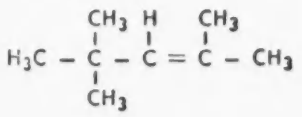


and 2,4,4-trimethylpentene-2



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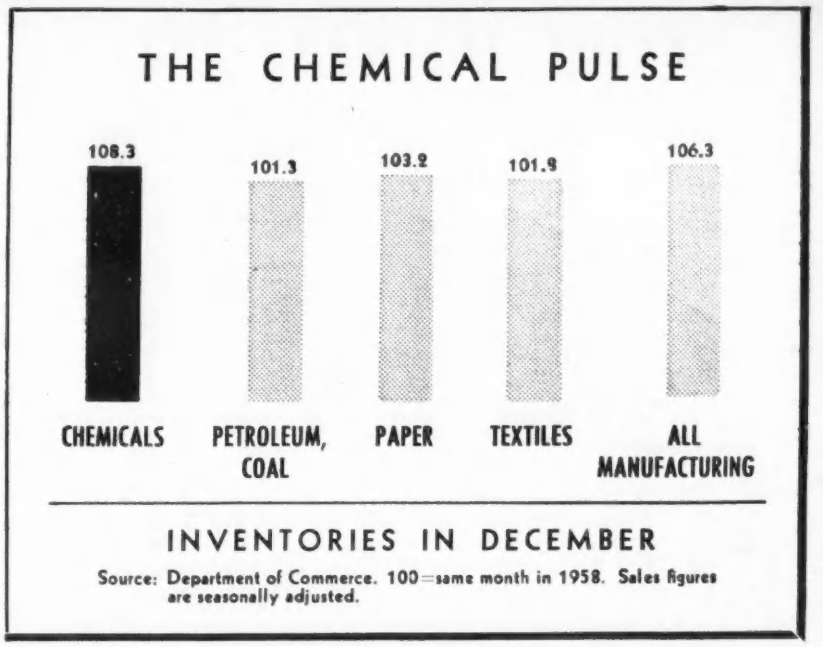


The Sale of Medicines

In the thunder and lightning of the publicity given to the aims, the activities—and the criticisms—of the senatorial probing of what has been far widely proclaimed to be a drug trust, another move against monopolization in the drug trade has been going on almost unnoticed. That is the rulings of courts which have exempted from the restrictions of state pharmacy laws the sale of a number of popular proprietary medicines, some of which are but brand-named products that have recognition in the official compilations of pharmaceutical standards.

A pertinent statement was made by a New York judge in ruling that proprietary-packaged aspirin tablets could be sold in supermarkets which do not have registration certificates from the board of pharmacy. He said: "Obviously there is no warrant for police-power legislation giving drug stores a monopoly on economic grounds in the retail sale of prepacked proprietary medicines . . . sold to a great extent in these stores on a self-service basis. This is particularly so when the drug stores are not restricted to the sale of drugs. This court is of the opinion that the sale of this product does not require special skills possessed peculiarly by pharmacists and druggists and that they do not exercise any special skill in its sale."

There appears to be some reason to expect that pharmaceutical organizations in the state will develop a suggestion that their members quit selling the proprietary product and provide their customers with aspirin tablets purchased in quantities from some well-known pharmaceutical manufacturer, packaging them as sold with their own store label.

In a court case in Minnesota, which ran for several months, the decision against the board of pharmacy held that eighteen commonly used packaged headache medicines, laxatives, digestive aids, cold remedies, and the like came within the provision of the state pharmacy law relative to "non-habit-forming proprietary medicines" and could be sold in stores over which the board of pharmacy had no supervision.

Something like sixty years ago, when the majority of drug stores were not the variety shops so common under that name today, in protest against the supplying of certain popular proprietary medicines to other types of stores, some druggists in a New Jersey city threw out the products involved and replaced them with substitutes, prepared and packaged and named by themselves. A few of them built up quite a business for their medicines.

Boosting Exports

What "Washington Talks It Over" had to say last week about the concern of the Secretary of Commerce with relation to the need which he sees for action to increase the export trade of the United States with the markets of the world presents but one aspect of what has become a quite general problem in the national economy, political as well as commercial, with emphasis on this country's competitive position in world trade.

The Commerce department has announced a new move in its foreign trade fairs program designed to win customers for US goods. It is asking private enterprise to help financially and actively to promote its program at the international fair to be held in Vienna, opening September 4. One of the motivations of that invitation is said to have come from a desire to obviate criticism that taxpayers' money is being used to build up business for private interests.

One of the major reasons why US export trade is not keeping pace with the expansion of world trade as a whole is that this country is being relegated to its pre-world-wars status in the markets of the world by the progressive resumption of industrial and commercial actvities in other countries, especially European, where they had been reduced and hampered by wartime conditions.

Another big reason is that US goods are priced too high. It has quite pertinently been said that this country not only has priced itself out of many areas of its recently enjoyed foreign markets but has also lost substantially to cheaper-producing countries in the markets here at home. It has been argued by some economic theorists that price is not the controlling factor in selling to foreign countries, the biggest trade-getter being the length of the credit term. There is no question that credit is of special importance in these times of unbalanced currency resources; but, the higher the price, the longer must be the time in which it must be paid; so, the practical application of that theory is not so simple as it sounds.

Another contributory factor in the unsatisfactoriness—at least from the viewpoint of political economy which is most important in an election year—of this country's export trade is to be found in the reciprocal policies which are incident to the objectives and operations of at least the two biggest economic groupings of European nations. Basically, foreign trade is a two-way procession, and the United States, being looked upon all over the world as its richest nation, is expected to buy more than it sells—a commercial economic policy that would do it far more good than can be expected of the political economic handing out of largely misapplied foreign aid.

A most important contributory factor in foreign trade is human relations—it is especially important on the part of the seller. That is not a strong US characteristic with respect to the peoples of other-language nations. Much can be learned in that connection by way of active participation in the trade missions of the Department of Commerce—what was the extent and nature of such participation in the three missions recently dispatched? Much can, perhaps will, be learned under the program of Princeton University with a Carnegie grant, which will enable ten linguistically qualified junior students to work in French business establishments during the coming vacation period. That idea should have world-wide application.

25 YEARS AGO
IN
Oil, Paint and Drug Reporter

(Issue of March 18, 1935)

A bill to amend the antitrust laws by requiring prices to be quoted only on the basis of point of manufacture has been introduced in the senate. One provision of the bill would make it unlawful to discriminate in price between different purchasers regardless of the quantity purchased.

Lammot duPont, president of E. I. duPont de Nemours & Co., will speak on "Exporting from the Standpoint of the Manufacturer" at the annual banquet of the Export Managers Club in New York, March 19.

50 YEARS AGO

(Issue of March 21, 1910)

A cargo of about 400 tons of fertilizer shipped by American Agricultural Chemical Company has been abandoned at sea. The schooner George F. Phillips, under captain Z. B. Gaskins, was carrying the fertilizer out of Baltimore to Wilmington, N. C. The craft sprung a leak and was abandoned February 4, 185 miles southeast of Cape Hatteras.

A glass blowing machine for narrow-neck bottles has been invented. If claims of its inventor are substantiated, the device may well take the place of hand blowers.

75 YEARS AGO

(Issue of March 18, 1885)

A rash of strikes has broken out in the glass industry. Says an OPD editorial: "The flint glass houses of Wheeling are practically paying the same rates as during the past three years . . . Under the circumstances, the workmen in this industry are being well provided for and have no cause to complain."

Washington Talks It Over

Rosy Days Are Ahead, the Chemical Producers Say, and They're Taking One of the Best Means To Prove It: They're Spending a Lot of Money These Days on New Plants.

By Ralph L. Cherry
Washington Editor

Chemical companies and some of the other industries closely associated—such as paper and allied products, petroleum and coal products, and rubber—are taking a very rosy view of the business future.

In fact, the chemical and rubber producers think the outlook is so good that they are planning to up their investments in new plants and equipment this year by about one-third over those of last year.

Authority for the estimate is the Bureau of Economics of the Department of Commerce and the Securities & Exchange Commission which report that if all goes as planned, the chemical industry will find itself within shouting distance of the peak in capital spending reached in 1957.

According to the two agencies, the industry is programming $1,642 million for new plants and equipment this year, only $82 million less than the record 1957 expenditures and about $400 million more than last year.

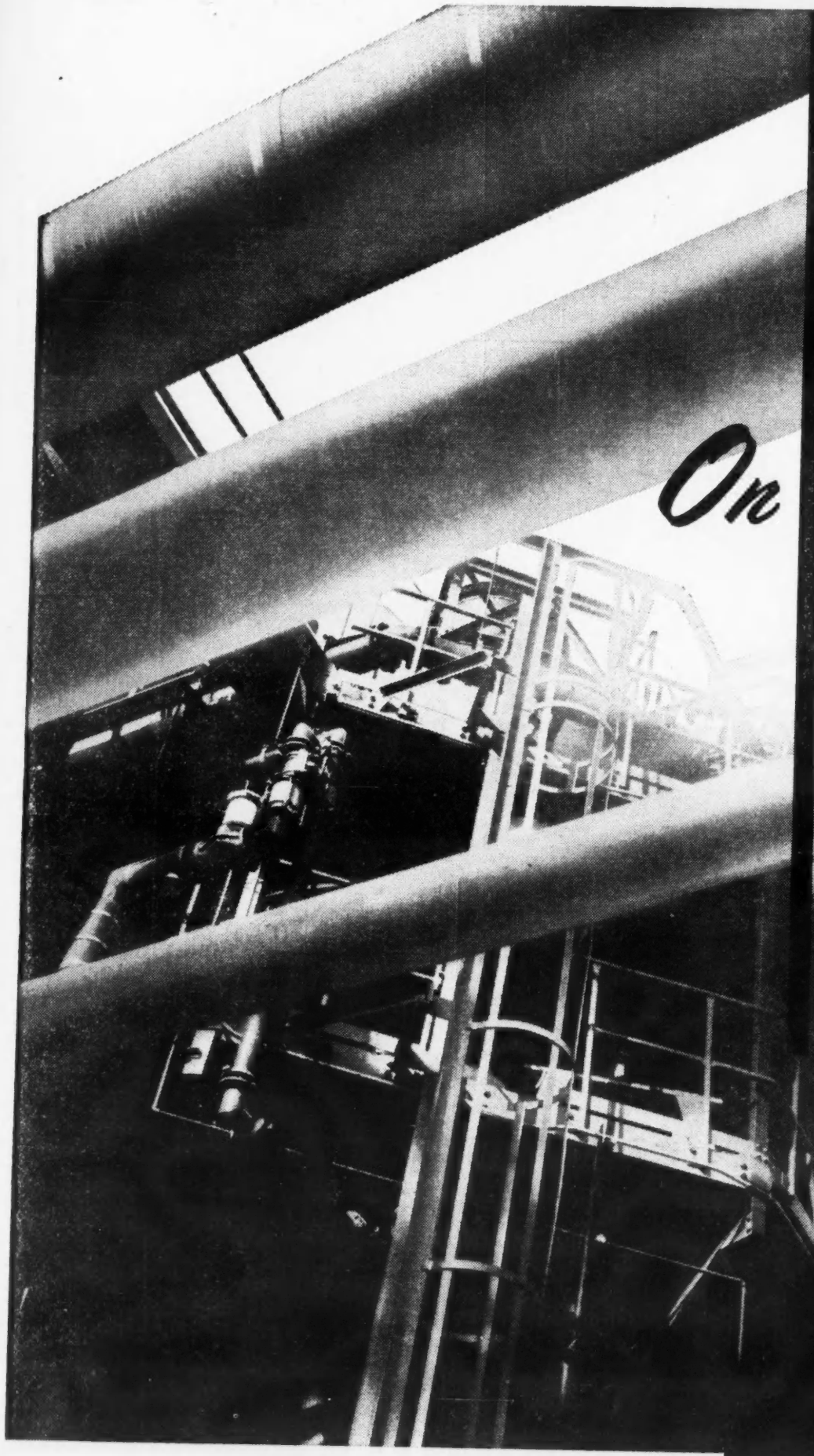
Second-quarter spending is being pushed way up to $358 million from the first-quarter total of $318 million, which would make it the highest quarter spending since 1957.

Rubber manufacturers are planning to spend $254 million on new plants and equipment this year as against $190 million last year; paper and allied products will invest $696 million against $630 million, and the petroleum and coal products producers $2,930 million against $2,491 million.

Optimism seems to be reflected all across the board. Business generally is planning on capital investments of $37 million, $4.5 billion or 14 percent more than last year and about the same amount as the record year 1957.

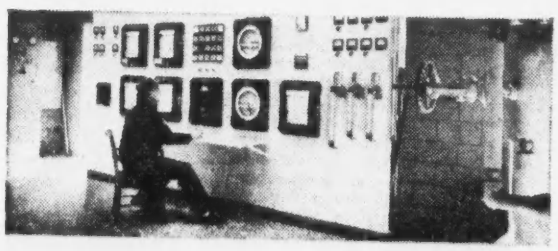
Manufacturers expect expenditures to increase 25 percent in 1960, with durable goods industries' outlays one-third higher than last year. In non-manufacturing, planned increases range from 2 percent for mining to 10 percent for railroads.

Increases in plant and equipment spending mean more business for the industries supplying the basic materials and equipment, more employment, and more purchasing power to find its way into the markets generally.



On Stream

Dixon Chemical's Sulfuric Acid Sludge Regeneration Plant . . . Paulsboro, New Jersey



DIXON CHEMICALS

DIXON CHEMICAL INDUSTRIES, INC.

Executive Offices: 1260 Broad Street, Bloomfield, N. J. EDison 8-4000

Sales Offices: Bloomfield, New Jersey; Paulsboro, New Jersey; Providence, Rhode Island

CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, March 18 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns ..... lb. 1.90 - 2.50
Acacia (see Arabic gum).
Acenaphthene, below 92.5 C. m.p., dms., works lb. .40 - —
Above 92.5 C. m.p., bbls. dms., works lo. .41 - .50
Acetaldehyde, 99% dms., c.l., works lo. .12 - —
dms., l.c.l., works ..... lb. .13½ - —
tanks, works ..... lb. .10 - —
Acetaldol (see Aldol)
Acetanilide, tech., flaked, bbls., bgs. c.l., frt alld lb. .32½ - —
bbls., bgs., ton lots, frt alld. lo. .33½ - —
bbls., bgs., smaller lots, frt, alld lb. .36½ - —
USP, bbls., 225-lb dms any quantity lo. .79 - —
100-lb dms., any quantity lb. .81 - —
Acetic acid, coml. of comst., 28% bbls 100 lbs 4.80 - —
56% bbls. ..... 100 lbs 8.25 - —
70% bbls. ..... 100 lbs 9.95 - —
80% bbls. ..... 100 lbs 10.45 - —
Acetic acid, glacial, syn., CP, dms. dlvd 100 lbs 22.00 -23.00
tech., dms., c.l., dlvd. 100 lbs 13.75 - —
dms., l.c.l., dlvd. ..... 100 lbs 15.25 - —
tanks, dlvd ..... 100 lbs 10.00 - —
USP, chys., dlvd ..... 100 lbs 31.00 -32.00
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½ - —
aluminum ret. dms., l.c.l., dlvd E. lb. .18 - —
tanks, dlvd. E. ..... lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib dms. l.c.l., dlvd. ..... lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib. dms., l.c.l., dlvd. ..... lb 1.36 - —
Acetoacet-o-toluidide fib. dms., c.l., dlvd lb. .82 - —
fib dms., l.c.l. dlvd. ..... lb. .83 - —
Acetone, CP, dms., c.l., dlvd. ..... lb. .11 - —
dms., l.c.l., dlvd ..... lb. .12½ - —
tanks, dlvd. ..... lb. .08½ - —
Acetonitrile, dms., c.l., t.l., dlvd lb. .35 - —
dms., l.c.l., dlvd ..... lb. .36½ - .37
tanks, dlvd. ..... lb. .32 - —
Acetophenetidin, USP, 200-lb. dm., 1,000 lbs., frt. alld lb. 1.22 - —
100-lb dm., 1,000 lbs., frt. alld. lb. 1.24 - —
Acetophenone, cns., dms. ..... lb. .42 - 1.30
Tech., dms., c.l., works ..... lb. .37 - —
dms., l.c.l., works ..... lb. .37¼ - —
tanks, works ..... lb. .35 - —
N-Acetyl-p-aminophenol, dms., t.l. (min. 23,000 lbs.), frt. adjusted. lb. 1.24 - —
dms., smaller lots, same basis. lb. 1.35 - 1.63
dms., 5,000-lb. lots, same basis. lb. 1.30 - 1.45
Acetylene black, imp., bgs., c.l., duty and freight extra lb. .19 - —
cs., l.c.l., ex whse. ..... lb. .24½ - .30
Acetylene tetrabromide, 16-dm. lots or more, f.o.b. works lb. .53 - —
Acetylsalicylic acid USP, special, makers, primary distr., bbls., 1,000-lb lots, point of shipt lb. .63½ - —
USP, standard, fine, cryst. gran., (20-40 mesh) powd., (80 mesh), 250-lb bbls., c.l., t.l. same basis lb. .55¼ - —
Freight equald, shipt identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E of Denver lb. .35½ - —
non-ret. dms., l.c.l., frt alld E. of Denver lb. .36½ - —
tanks frt alld E. of Denver. lb. .33 - —
tech., non-ret. dms., c.l., frt. alld E. of Denver lb. .39½ - —
non-ret. dms., l.c.l., frt alld. E of Denver lb. .40½ - —
tanks frt. alld E of Denver lb .37 - —

ACIDS

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .51 - —
dms., l.c.l., works ..... lb. .51¾ - —
tanks, works ..... lb. .46 - —
Acrylamide, dms., t.l., f.o.b. works. lb. .58 - —
dms. l.t.l. same basis ..... lb. .60 - —
Acrylic acid, glacial, dms., c.l., t.l., frt. alld. lb. .57 - —
dms., l.c.l., l.t.l., frt. alld. ... lb. .58 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .26 - —
dms., l.c.l., l.t.l., frt. alld. ... lb. .27 - —
tanks, frt. equald ..... lb. .23 - —

Abies Siberica Oil—Ammonium Bifluoride

Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd. ..... lb. .32¼ - —
bgs., l.c.l. dlvd. ..... lb. .35 - —
Agar, USP, Kobe No. 1, strip bls. lb. 2.35 - 2.40
powd., 30 mesh, fib. dms lb 2.40 - —
dl-Alanine, dms., 100-lbs or more, f.o.b. works lb. 5.25 - —
dms., 1-99 lbs., same basis lb. 10.00 - —
Aldol, 95%, dms., l.c.l., works lb. .28 - —
Aldrin, tech., fib. dms. c.l., t.l., dlvd lb. .99 - —
fib. dms., l.c.l., dlvd ..... lb. 1.04 - —

ALCOHOLS

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root, bgs ..... lb. 1.50 - 1.75
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250 lb. bbls., dlvd. E of Rockies lb 2.38 - —
Alkali blue, toner, litho flushed, 125-lb bbls, same basis lb. 1.35 - —
Alkali blue prices 1c higher W of Rockies
Allethrin, 90% dms., frt. alld lb 28.80 -28.90
Soln. 20% dms. 200-2,000 lb lots, frt alld lb 6.50 6.55
2½% dms. frt. alld. lb .95 1.10
Allspice oil (see Pimento oil).
Allyl alcohol dms. c.l. dlvd. ... lb .32½ - —
dms., l.c.l. dlvd ..... lb .34 - —
tanks dlvd. lb .30 - —
Allyl bromide 55-lb chys. 5,005 lbs or more works lb 1.47 - —
55 lb. chys. 1,045 to 4,950 lbs. works lb 1.52 - —
55-lb chys. 55 to 990 lbs works lb 1.57 - —
Allyl chloride dms. c.l. dlvd. lb 17½ - —
dms., l.c.l. dlvd ..... lb .19 - —
tanks, dlvd lb .15 - —
Allyl isocyanate (see Mustard Oil, syn.)
Almond oil nat. bitter f.p.a. bots. lb 2.75 3.45
NF bots lb 3.00 3.30
sweet, USP, cns., dms ..... lb. .70 - 1.30

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	No.	number
amorph.	amorphous	djns.	demijohns	nom.	nominal
AMP	American melting point	dlvd.	delivered	o-	ortho
anhyd.	anhydrous	dms.	drums	ord.	ordinary
AOAC	Association of Official Agricultural Chemists	doms.	domestic	oz.	ounce
		E.	east	p-	para
		e.p.	end point	Pac.	Pacific
		equald.	equalized	pf.	proof
a.p.a.	available phosphoric acid	exp.	expressed	phos.	phosphate
		Ext.	external	photo.	photographic
approx.	approximately	F.	fahrenheit	pkgs.	packages
artif.	artificial	ferment.	fermentation	powd.	powdered
ASTM	American Society for Testing Materials	f.f.a.	free fatty acid	precip.	precipitated
		f.f.c.	free from chlorine	prod.	producer
		fib.	fiber	pt.	point
Atl.	Atlantic	f.o.b.	free on board	pulv.	pulverized
Be.	Baume	f.p.a.	free of prussic acid	purif.	purified
bbls.	barrels	frt.	freight	redist.	redistilled
bgs.	bags	gal.	gallon	refd.	refined
bls.	bales	gran.	granular	refy.	refinery
bots.	bottles	grd.	ground	reg.	regular
b.p.	boiling point	i&a.	iron and aluminum	resub.	resublimed
b.p.l.	bone phosphate of lime			ret.	returnable
b.r.	boiling range	i.b.p.	initial boiling point	SD	specially denatured
bxs.	boxes	imp.	imported	s.d.	single distilled
C.	centigrade	incl.	included	S.E.	southeast
cbys.	carboys	indust.	industrial	sec.	secondary
CD	completely denatured	kgs.	kegs	secs.	seconds
		l-	laevo	s.g.	specific gravity
c.i.f.	cost, insurance, freight	lacq.	lacquer	shipt.	shipment
		lb.	pound	soln.	solution
cks.	casks	l.c.l.	less than carlots	s.u.	standard unit
c.l.	carlots	t.t.l.	less truckload	syn.	synthetic
cns.	cans	liq.	liquid		
coml.	commercial	mfrs.	manufacturers	tanks.	railroad tankcars
conc.	concentrated	m-	meta	tech.	technical
CP	chemically pure	m a p	mixed aniline point	tert-	tertiary
cps.	centipoises			t.l.	truck loads
cryst.	crystalline	min.	minimum	t.w.	tank wagons
cs.	cases	m.p.	melting point	USP	U. S. Pharmacopoeia
ctns.	cartons	N-	nitrogen		
cyls.	cylinders	n-	normal		
d-	dextro	nat.	natural	vis.	viscosity
dbl.	double	neut.	neutral	VM&P	Varnish makers & painters
denat.	denatured	NF	National Formulary		
dest-dist	destructively—distilled	NNR	New and Nonofficial Remedies	W.	west
				wnse.	warehouse
dl-	dextrolaevo			w. w.	water-white
dist.	distilled				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material

Alkyl isocyanate (see Mustard Oil, syn.)
Almond oil nat. bitter f.p.a. bots. lb 2.75 3.45
NF bots lb 3.00 3.30
sweet, USP, cns., dms ..... lb. .70 - 1.30
Aloe, Cape, gs. ..... lb. .30 - .35
powd., cs. ..... lb .60 - .65
Curacao kgs. ..... lb .60 70
powd. kgs. ..... lb 80 —
Aloin USP bbls. dms. kgs. ... lb 3.25 3.75
Alphanaphthol (see a-Naphthol)
Alphanaphthylamine (see a-Naphthylamine)
Alphanitronaphthalene (see a-Nitronaphthalene)
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol)
Alphatocopherol (see a-Tocopherol)
Alum, ammonium gran bgs., works 100 lbs 4.30 —
lump, dms., works 100 lbs 5.05 —
powd., dms., works ... 100 lbs 5.20 —
USP, burnt dms ..... lb .20 .21
hydrous dms lb .07¾ .08
Alum potassium gran. bgs. works 100 lbs 4.55 —
lump, dms., works ... 100 lbs 5.30 —
powd., dms., works ... 100 lbs 5.45 —
USP, burnt, dms ..... lb .20 .21
USP, hydrous, dms ..... lb. .07¾ .08
Alum, potash-chrome, dms. ... lb .17 —
Alumina, calcined bgs. c.l. works. lb .05 —
bgs., l.c.l., works lb .05¼ .08
Aluminum acetate, basic soln., 24%, bbls. l.c.l. works lb. .14 —
Aluminum chloride, coml., anhyd., dms., c.l. works, frt. equald lb .16 —
dms. l.c.l., works lb .16½ —
cryst., dms., c.l. works 100 lbs 21.00 —
dms. l.c.l. works 100 lbs 21.50 —
Soln., 32° cybs., c.l., works lb. .0495 —
chys., l.c.l., works lb .0570 .1095
tanks works 100 lbs 3.95 —
NF, gran. dms., works lb .31 .32
Aluminum fluoride, tech. anhyd., bgs. c.l. works lb .17¼ —
bgs., l.c.l., works lb .18¼ .20¼
bulk, c.l., basis 80% lb. .14½ —
Aluminum fluoride in fib dms. 0.35c per lb higher
Aluminum formate, basic soln., containers extra c.l. works 100 lbs 11.00 - —
containers extra l.c.l. works 100 lbs 11.50 - —
Aluminum hydrate heavy, bgs., c.l., frt. equald lb .03½ —
bgs. 20,000-40,000 lb lots, same basis lb .03¾ —
bgs. 2,000-20,000 lb lots, same basis lb .04¼ —
bulk, c.l., same basis lb .03¼ —
Aluminum hydroxide, dried, USP XV, t.b. dms., works lb .82½ —
fib dms., contract, works lb .79½ —
Aluminum hydroxide, gel, pharmaceutical 14-15% Al_2O_3, fib dms., works lb .22 —
99.5% Al_2O_3, fib dms. works lb .19 —
fib dms. contract, works lb .18 —
Aluminum hydroxide, tech., powd. (See Aluminum hydrate)
Aluminum metal, 99%+ ingots, 10,000-lb. lots, frt. alld lb. .2310- —
pigs, 10,000-lb. lots, frt. alld lb. .25 - —
Aluminum oxide, amorphous (See Alumina, calcined)
Aluminum paste, lining, extra-fine, dms lb. .71 - —
Standard grade, dms lb. .83½ - —
Aluminum powder, lining, extra fine, dms lb. 1.53 - —
Standard grade, dms lb. .83 - —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c per lb for 100 lb dm., 1½c per lb for 50 lb dm., 3c per lb for 10 lb can and 5c to 12c per lb for smaller containers. Deduct 1c per lb for single shipment of 400 to 1,499 lbs., 2c for 1,500 to 4,999 lbs., 3c for 5,000 to 29,999 lbs and 4c for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Aluminum resinate, precip., 2.1% Al, dms. lb. .40¼ - —
Aluminum stearate, dibasic, ctns., c.l. lb. .39 —
ctns., l.c.l. ..... lb .40 .44
Monobasic, ctns., c.l. ..... lb .39 —
ctns., l.c.l. ..... lb .40 .44
Tribasic, ctns., c.l. ..... lb .39 —
ctns., l.c.l. ..... lb .40 .44
Aluminum sulfate, coml., grd., bgs c.l. works, frt. equald ton 41.00 - —
bulk, c.l., same basis ton 40.00 - —
lump, bgs., c.l., same basis ton 44.00 - —
iron-free, bgs., c.l. works, frt. equald 100 lbs. 3.80 - —
bgs. l.c.l. works, frt. equald 100 lbs. 4.30 - 8.30
USP, gran., 400-lb. dm., works, lb. .29 - —
USP, powd., dms., works lb. .27 - —
Aluminum sulfate prices $1 per ton higher in the South
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 6.50 -10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.50 - 1.75
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.10
p-Aminobenzoic acid, tech., dry, dms, works lb. 1.72 - —
2-Amino-4-chlorophenol, tech. solid, dms., frt. alld lb. 8.10 - —
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb .475 - —
dms., l.c.l. dlvd ..... lb .49 - —
tanks, dlvd. ..... lb .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb .44 - —
dms., l.c.l., frt. alld. ..... lb .45 - —
tanks, frt. alld ..... lb .42 - —
m-Aminophenol, dist., dms., ton lots lb 2.05 - —
dms., smaller lots lb 2.50 - —
p-Aminophenol, dms., frt. alld. lb 1.15 - —
Aminophylline, USP, 100 lb. dm., frt. alld lb. 3.25 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb 3.40 - —
Ammonia, anhyd., fertilizer, tank., works, frt. equald, E. of Rockies ton 88.00 - —
refrigeration, tanks, works, frt equald, E. of Rockies ton 90.50 - —
Aqueous, 29.4°, tanks, works, anhyd. basis, E. of Rockies ton 91.00 - —
Ammoniacal liquor (see Ammonia, aqueous)
Ammoniac, sal gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 —
bgs., l.c.l., same basis 100 lbs. 8.65 12.65
Ammoniac, sal., white (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, fib. dms. ton lots, works lb. 1.00 - —
fib. dms. 1,000-lb lots, works. lb. 1.05 - —
Ammonium biborate, gran., dms., c.l., works ton 325.00 - —
dms., ton lots ex whse. 100 lbs. 20.40 - —
dms., smaller lots, ex whse. 100 lbs. 21.15 - —
Ammonium bicarbonate, dom., dms., c.l., works 100 lbs. 7.00 - —
dms., l.c.l., works 100 lbs. 9.00 - —
Ammonium bichromate, dms., works lb 42 43
Ammonium bifluoride, dms. dlvd lb 2145 2245

Ammonium Bromide—Broenner's Acid

Ammonium bromide, NF, gran., dms., c.l., t.l., frt. equald lb. .44 • —
dms. l.c.l., same basis ... lb. .46 • —
Ammonium carbonate, USP, lump, dms., c.l lb. .15½- —
Ammonium chloride, white, tech., fine gran., bgs., c.l. works 100 lbs 5.75 • —
bgs. l.c.l. works 100 lbs 7.75 8.20
USP, gran., 250-lb. dm. ..... lb. .17¼- —
Ammonium citrate, dibasic, 250-lb. dm. f.o.b works lb. .77 • —
Ammonium dichromate (see Ammonium bichromate)
Ammonium fluoride (see Ammonium bifluoride)
Ammonium gluconate, tech., 200-lb. dm f.o.b works E lb. .45 • —
Ammonium hydroxide (see Ammonia aqueous)
Ammonium iodide, NF, 25-lb. jar, f.o.b works lb 4.26 • —
Ammonium lauryl sulfate, dms., c.l., frt. alld lb. 20½- —
dms., t.l.l. frt alld lb. 21½- —
tanks frt alld lb. 19½- —
Ammonium lignin sulfonate, bgs., c.l. works 100 lbs 3.25 —
bgs. l.c.l. works 100 lbs 3.40 3.65
Ammonium linoleate, 80% dms., works lb. .50 .55
Ammonium molybdate, CP, cryst., 400-lb. dms., 15,000-lbs., works, lb. 1.22 • —
400-lb. dms., 2,000-lb. contracts, works lb 1.23 —
400-lb. dms., works ..... lb. 1.24 • —
Ammonium nitrate, dom. fertilizer grade, 33.5% N, bags, f.o.b. works ton 68.00 • —
with dolomite, 20.5% N, bgs. c.l., Hopewell, Va ton 48.00 • —
Imp. Canadian, 33.5% N, eastern, bgs. c.l. ship't point frt equald to $3 ton base price ton 68.00 • —
Ammonium oxalate, tech., fine gran. 250-lb. dm f.o.b works E lb 28½- —
Tech., powd., 200-lb. dm., same basis lb. 28½- —
Ammonium pentaborate, gran. bgs. c.l. works ton 193.00 —
bgs., ton lots, ex whse 100 lbs. 14.23 —
bgs., smaller lots, ex whse 100 lbs. 15.48 -17.48
Ammonium pentaborate, powder $10 per ton higher in bags.
Ammonium persulfate, tech., dms., 10-ton lots or more works, lb 18 —
dms. smaller lots works lb 20 23
Ammonium phosphate, comL, ngs., c.l. works frt equald lb. 09¼ —
ngs. l.c.l. same basis lb. 10 —
Dibasic, NF, V, bbls., dms lb. .46 • —
Dibasic, tech., bgs., c.l., works, frt. alld lb. .09¼- —
Ammonium silicofluoride, dms., works lb 11¾ 13¼
Ammonium sulfamate, bgs. c.l. t.l., works lb 19 —
bgs. l.c.l. works lb 27½ 27
Ammonium sulfate, standard granular bulk f.o.b works, base price ton 32.00 —
purif., c.l., 100-lb. bgs., f.o.b. works lb. .06½- —
Large granular bulk c.l., works ton 35.00 • —
Ngs c.l., works ton 40.00 • —
Tech. bulk c.l. t.l. works ton 52.00 —
bgs. c.l., t.l., works ton 56.00 --
bgs. l.c.l. t.l.l., works 100 lbs 3.20 .20
Ammonium sulfide, liq., 40-44%, tanks frt., equald 100% basis ton 160.00 —
Ammonium sulfocyanide, tech. (see Ammonium thiocyanate)
Ammonium thiocyanate, tech., cryst. dms., c.l., works lb. 20 • —
dms. l.c.l. works lb 22 .26
Tech., soln., 50%, tanks, frt. equald, basis ammonium thiocyanate content lb 17¼ —
Ammonium thioglycolate, coml., 55-gal. dms., ton lots, 100% basis lb. 1.15 • —
d-Amphetamine hydrochloride, mono-basic, dms lb 17.50 -23.50
dl-Amphetamine hydrochloride di-basic, dms lb. 4.50 6.00
d-Amphetamine phosphate, fib. dms., 100 lb lots lb 15.00 —
dl-Amphetamine phosphate, dms lb. 4.20 5.60
d-Amphetamine sulfate, fib. dms, lb 15.00 -17.00
dl-Amphetamine sulfate fib. dms., lb. 4.20 5.60
Amyl acetate, ex fusel oil, tech., dist. from 125° to 150°C. dms., c.l., frt. alld E of Rockies lb. 18½ 19
dms. l.c.l. same basis lb 20 20½
tanks same basis lb 16 16½
Amyl acetate, ex pentane, reg., dms., c.l., dlvd lb. .19 • —
dms. l.c.l. dlvd lb. .21½ —
tanks, dlvd. lb 16½ —
tech., dms., c.l., dlvd lb. .17 • —
dms. l.c.l. dlvd lb. 18½ —
tanks dlvd. lb. 14½ —
Syn., oxo process, dms. c.l., dlvd. lb 19 • —
dms. l.c.l. dlvd lb. 20½ —
tanks, dlvd lb 16½ —
Amyl alcohol, ex fusel oil (see Fusel oil refd.).
Amyl alcohol, ferment refd. 128°-132°C., dms., l.c.l. dlvd lb. 43½ —
refd., ACS grade, dms., l.c.l., dlvd lb. .45½ —
ex pentane, mixed amyls, dms., c.l., frt. alld lb. .19 • —
dms. l.c.l. frt alld lb. 20½ —
tanks, frt. alld lb. 16½ —
primary, dms. c.l. frt. alld, lb 19¾ 20¾
dms. l.c.l. frt alld lb 21¼ 21¾
tanks, frt. alld lb. 17¼ .17¾
Sec-synthetic, dms., c.l., works, frt. alld lb. .19 • —
dms., c.l., works lb. 20½ —
tanks, works lb. 17 • —
Tert-synthetic, dms., c.l., frt. alld E lb. .17 • —
dms. l.c.l. frt alld E lb. 18½ —
tanks, frt alld E lb. 14½ —
Amyl alcohol, l-pentanol (syn. nat.) mall. dms. c.l. works lb 41½ —
dms. l.c.l. works lb. 43 • —
tanks works lb 39½ —
2-pentanol, dms., c.l., works lb. .65 • —
dms. l.c.l. works lb 70 • —
tanks, works lb 60 —
Amyl n-butyrate, dms lb 1.00 1.25
Amyl cinnamic aldehyde, dms lb. 1.70 2.20
Amyl tert-amyl phenol, dms. c.l. works, lb. .26¾ —
dms. l.c.l. works lb 27¾ —
Amyl salicylate, cns. dms lb. .73 1.08
Amyris oil, dms. ..... lb. 1.65 • 2.05
Anethole, tech., dms. ..... lb. .92 • 1.00
USP, cns., dms. ..... lb. 1.12 • —
Angelica root, bls. ..... lb .90 • 1.00
Angelica root oil, bots ..... lb 120.00 -140.00
Angelica seed oil, bots. ..... lb 120.00 -130.00
Aniline, dms., c.l., frt alld ..... lb. .20 • —
dms., l.c.l. frt. alld. ..... lb. .21 • —
tanks frt alld ..... lb. .18 • —
Aniline oil (see Aniline)
Aniline salt, dms., c.l., truckloads, 20,000 lbs. min. frt alld. lb. .33 • —
dms., l.c.l., same basis ..... lb. .35 • —
Anise oil, USP, dms. ..... lb 1.75 • 3.00
Anise seed, Mexican, bgs. ..... lb. .16 • —
Spanish, bgs. ..... lb. .16½- —
Anisic aldehyde, dms ..... lb. 1.50 • 2.20
o-Anisidine, dms. c.l., frt. alld lb. .80 • —
dms., l.c.l., same basis ..... lb. .82 • —
tanks, same basis ..... lb. .78 • —
p-Anisidine, dms., works ... lb. .97 • —
Anthracene, 90-95%, dms., c.l., t.l., f.o.b., works lb. .42½- —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 • —
Anthranilic acid, 99% 150-lb dms., dlvd lb. 1.15 • —
Anthraquinone, 99.5% bbls., c.l., frt alld lb. .83 • —
bbls., l.c.l., same basis ... lb. .86 • —
Electrical grade, bbls. l.c.l., same basis lb. 1.10 • —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines, lb. .29 • —
cs., c.l., mine ..... lb. .29½- —
Antimony oxide, bgs., c.l., frt. alld, lb. 24½- —
bgs. l.c.l., frt. alld. lb. .26 • —
Prices of antimony oxide are 2c higher west of the Rockies.
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 • —
bgs., smaller lots, dlvd lb. .24 • .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 • —
pails, l.c.l. works lb. .43 • —
Antimony potassium tartrate, tech., powd., 250-lb. dm., f.o.b. works, E lb. .69½- —
USP, powd., 250-lb. dm., same basis. lb. .74½- —
Apomorphine hydrochloride, USP, bots., 25-oz. lots oz. 35.60 • —
Apricot kernel oil, USP, dms lb. .70 • 1.25
Arabic gum, amber sorts, 10 bgs. lb. .24 • —
USP, powd., bbls. ..... lb. .29 • .30
Areca nuts, powd., bbls. lb 13 —
Arecoline hydrobromide, NF, bots., tins, 100 oz. or more oz. 4.00 • —
l-Arginine, free base, dms, 10-kilo lots or more kilo 90.00 • —
l-Arginine glutamate, dms., 10-kilo lots or more kilo 60.00 • —
l-Arginine monohydrochloride, dms., 10-kilo lots or more kilo 60.00 • —
Arnica flowers (true Montana), bls lb. .75 • —
Aromatic petroleum solvents—See Solvent Naphtha, petroleum, aromatic
Arsenic, crude (95%), bulk, c.l., works lb .016 • —
bbls. c.l., works lb. .031 • —
Arsenic trioxide, NF, powd., dms., 300-lbs., f.o.b. works lb. .48 • —
Arsenic, white, powd. bbls., c.l., works lb .04½ —
bbls. l.c.l. works lb .06½- .07½
Arsenous acid, tech (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons, deep shades, bbls lb 3.70 • —
Light shades, bbls lb 2.85 • —
Asafetida, gum, cns lb .36 • .40
Powd. bbls, dms lb .75 • .80
Asbestine (see Talc, fibrous, New York).
Asbestos, Canadian, crude:
6D c.i. (30 tons) mines ton 80.00 • —
7D c.i. (30 tons) mines ton 75.00 • —
7F c.i. (30 tons) mines ton 71.00 • —
7H, c.i. (30 tons) mines ton 61.00 • —
7K, c.i. (30 tons) mines ton 50.00 • —
7M c.i. (30 tons) mines ton 44.00 • —
7R, c.i. (30 tons) mines ton 43.00 • —
7RR c.i. (30 tons) mines ton 44.00 • —
7T, c.i. (30 tons) mines ton 41.00 • —
7TR c.i. (30 tons) mines ton 44.00 • —
Asbestos prices are in Canadian funds; l.c.l. lots $4 per ton higher
Ascorbic acid, USP, 25 50-kilo dms., kilo 10.00 • —
10 kilo dms. ..... kilo 10.25 • —
5-kilo dms. ..... kilo 10.75 • —
1-kilo bottle ..... kilo 11.00 • —
500 gram bottle ..... kilo 11.50 • —
Ash, black (see Barium sulfide).
Asphalt, gilsonite, black jet, ngs. c.l., mines ton 40.00 • —
ex whse N. Y., N. J. ton 86.50 • —
seconds, 300-330 F. fusing pt. bgs., c.l., mines ton 35.00 • —
select, 350°F. fusing pt., bgs. c.l. mines ton 41.00 • —
270-295 F. fusing pt., bgs., c.l. mines ton 40.00 • —
Manjak No. 10 crude, dms. works lb .07 • —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy gal. .09½- —
emulsion tanks tankwagon refy gal .09½ —
steam-refd., 50-80 penetration, tanks, tankwagon, refy. ton 21.00 • —
85-100 penetration tanks, tank wagon refy ton 20.00 • --
Aspirin (see Acetylsalicylic Acid).
Atropine, NF, tins ..... oz. 5.75 • 7.50
Atropine sulfate, USP, bots ... oz 5.25 5.75
Azelaic acid, bgs., c.l., dlvd ... lb. .40 • —
bgs., ton lots, same basis ..... lb. .41 • —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .65 • —
less than 1,000,000,000 units 50,000 units. .70 • —
Balm of Gilead buds, dried, bgs lb 1.25 1.35
Barberry root bark, bgs ... lb. 1.00 • 1.10
Barbital, NF, 100-lb. dms., f.o.b. works lb. 4.50 • —
Barbital sodium, NF, 100-lb. dms., works lb. 4.50 • —
Barium carbonate, precip., bgs. c.l., works ton 111.50 • —
bgs. smaller lots works ton 126.50 • —
Barium chlorate, dms works lb .32 • .41
Barium chloride, anhyd., bgs., c.l., works ton 176.00 • —
bgs. l.c.l. works ton 196.00 • —
NF, cryst., dms., 400-lbs., works, lb. .23 • —
Tech., cryst., bgs., c.l., works, 100 lbs. 7.60 • —
bgs. l.c.l., works ... 100 lbs. 8.00 • —
Barium chromate, bgs. frt. equald lb. .38 • —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., bgs., c.l., t.l., frt. equald ton 208.00 • —
bgs. l.c.l., t.t.l., frt equald ton 218.00 • —
Barium monohydrate, 99%, bgs., c.l., frt. equald 100 lbs. 11.25 • —
bgs., l.c.l., frt. equald 100 lbs. 11.75 • —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls., c.l., t.l., dlvd. lb. .16 • —
bbls. l.c.l., t.t.l., dlvd. ..... lb. .17 • —
Barium oxide, grd., dms., c.l., t.l., frt. equald ton 275.00 • —
dms., l.c.l., t.t.l., frt. equald. ton 285.00 • —
Barium peroxide, dms. frt. equald. lb. .20 • —
Barium stearate, ctns. c.l. frt alld. lb. .41 • —
ctns., l.c.l., same basis ..... lb. .42 • .46
Barium sulfate, tech. (see Barytes and blanc fixe).
Barium sulfate, X-ray, 100-lb. dm. lb. .19½- —
Barium sulfide, dms., c.l., works. ton 100.00 • —
dms., l.c.l., works ..... ton 110.00 • —
Barytes, southern, off-color, bgs., mines ton 25.00 • —
95-75%, bgs., mines ton 25.00 • —
white, water-grd., paper bgs., c.l., St. Louis ton 55.00 -55.25
paper bgs., ex whse., New York ton 79.85 • —
Battery acid, cbys. c.l. works, E. 100 lbs. 2.35 • —
cbys., l.c.l., works, E .... 100 lbs. 2.65 -10.95
Bauxite, bulk, mines ..... ton 7.00 -10.00
Bay oil, NF, Puerto Rican, 50-55% cns lb. 1.95 • 2.70
55-60%, cns lb. 2.50 • 3.05
NF, West Indian, 50-55%, cns., dms lb. 2.35 • —
Bayberry wax, bgs ..... lb. .45 • .50
Beeswax, crude, African, bgs. ... lb. .50 • .52
Brazilian, bgs. ..... lb. .55 • .56
Central American, bgs.... lb. .53 • —
Chilean, bgs. ..... lb. .56 • —
Refd. USP bleached white, bricks, 100-lb. ctns lb. .69 • .71
white, slabs, 100-lb. ctns .. lb. .68 • .70
yellow, bricks, 100-lb. ctns lb. .59 • .61
yellow, slabs, 100-lb. ctns lb. .58 • .60
Belladonna leaf, bls. ..... lb. .24 • .26
Belladonna root, bls. ..... lb. .28 • .35
Bentonite, dom. 200 mesh, bgs., c.l., mines ton 14.00 • —
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton 95.20 • —
bgs., 1-ton lots, ex whse ton 99.00 • —
Imp., Italian, white low gel., bgs., 5-ton lots ex whse ton 93.40 • —
bgs., 1-ton lots, ex whse ton 97.16 • —
Benzal chloride, cbys., works lb. .44 • —
Benzaldehyde, NF, dms ..... lb. .80 • 1.05
Tech., dms., c.l., t.l. ..... lb. .47 • —
dms., l.c.l. ..... lb. .48 • —
Benzene, coaltar, pure or nitration, tanks, works:
Bethlehem, Pa. ..... gal. .34 • —
Birmingham district .. gal. .34 • —
Chicago district ..... gal. .34 • —
Cleveland district ..... gal. .34 • —
Geneva, Utah ..... gal. .34 • —
Johnstown, Pa. ..... gal. .34 • —
Lackawanna, N. Y. ... gal. .34 • —
Lone Star, Tex. ..... gal. .34 • —
Lorain, Ohio ..... gal. .34 • —
Middletown, Ohio ..... gal. .34 • —
Mennequa, Colo. ..... gal. .34 • —
Philadelphia district ... gal. .34 • —
Pittsburgh district ... gal. .34 • —
Sparrows Point, Md. ... gal. .34 • —
Syracuse, N. Y. ..... gal. .34 • —
Terre Haute, Ind ..... gal. .34 • —
Youngstown, Ohio ..... gal. .34 • —
Benzene, petroleum, nitration or industrial, Houston, Tex., tanks, gal. .34 • .40
Benzene hexachloride, 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech., high gamma, bgs., c.l., t.l., consignment, dlvd., gamma-unit, .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit, .0065- —
Tech., low gamma, bgs., c.l., t.l., consignment, dlvd. gamma-unit, .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit, .0056- —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 • —
bbls., l.c.l., same basis ..... lb. 1.21 • —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb. 1.21 • —
Benzidine yellow, AAA, bbls. dlvd. lb. 2.20 • —
AAOT, bbls., dlvd. ..... lb. 2.55 • —
Lightfast, bbls., dlvd. ..... lb. 3.40 • —
Benzocaine, dms., 100-lbs., frt. alld. lb. 3.25 • —
Benzoic acid, tech., bbls., dms., c.l., t.l., frt., alld lb. .37 • —
bbls., dms., ton lots, same basis lb. .41 • —
bbls., dms., 1,000-lb. lots, same basis lb. .43 • —
USP, bbls., dms., ton lots .... lb. .48 • —
bbls., dms., 1,000 lb. lots .. lb. .50 • —

BENZOL
Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzoin gum, Sumatra, cs. ..... lb. .33 • —
Benzophenone, dms. ..... lb. 1.40 • 1.65
Benzotriazole, tech., dms., 1,000-lb. lots, works lb. 2.25 • —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt., equald lb. .21 • —
cbys. smaller lots, frt., equald lb. .24 • —
Benzoyl chloride, cbys., dms., c.l., works, frt., equald lb. .22 • —
cbys., l.c.l., same basis lb. .23 • —
tanktrucks, dlvd Metropolitan area lb. .21 • —
Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 • 1.08
Benzyl acetate, t.f.c., cns, dms lb. .68 • .79
Benzyl alcohol, NF, dms. ..... lb. .58 • .60
Tech., dms., dlvd. ..... lb. .47½ .65
Benzyl benzoate, NF, USP, 40-lb. dms lb. .62 • —
Benzyl chloride, tech., cbys., dms., c.l., works, frt., equald lb. .22½- .25½
cbys., dms., l.c.l., same basis lb. .23 • .26½
tanktrucks, dlvd., Metropolitan area lb. .21 • —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices are 1c. lower.
Benzyl cinnamate, cns. ..... lb. 2.30 • 2.60
Benzyl dimethylamine, dms., works, lb. 2.25 • —
Benzyl formate, cns. ..... lb. 1.85 2.10
Benzyl isoeugenol, cns ..... lb. 9.25 • —
Benzyl propionate, bots. ..... lb. 1.35 • 1.65
Benzyl salicylate, bots. ..... lb. 1.50 • 1.85
Benzylidine acetone, bots. ..... lb. 1.75 1.80
Benzylidine chloride (see Benzal chloride).
Berberine bisulfate, cns ..... lb. 50.50 • —
Berberine hydrochloride, bots... lb. 56.50 • —
Bergamot oil, nat., NF, Italian, cns. lb. 11.00 -12.00
Betagammapicoline (see b,g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid).
Betamethylnaphthalene (see b-Methylnaphthalene).
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, tech.).
Biotin, cryst., bots. ..... gram 10.00 • —
Biphenyl (see Diphenyl).
Birchtar oil, crude cns. ..... lb 1.50 1.60
Rectified, cns. ..... lb 1.75 • 2.00
Bismuth chloride, tars ..... lb 5.11 —
Bismuth hydroxide, dms. ..... lb 4.60 4.65
Bismuth metal, bxs. ton lots lb 2.25 —
Bismuth nitrate, cryst. dms. lb 2.08 2.17
Bismuth oxide, anhyd., 100-lb. dm., f.o.b. works lb. 4.42 • —
Bismuth oxychloride, 25-lb. dm., f.o.b works lb. 4.42 • —
Bismuth subcarbonate, USP, dms. lb 3.20 • —
Bismuth subgallate, NF, 200-lb. dm., f.o.b. works lb. 3.15 • —
Bismuth subiodide, fib. dms lb. 5.37 • —
Bismuth subnitrate, NF, 200-lb. dm., f.o.b works lb. 2.65 • —
Bismuth subsalicylate, USP, 100-lb. dm., f.o.b works lb. 3.50 • —
Bismuth-ammonium citrate, USP, powd. jars lb 4.22 • —
Bisphenol-A, bgs., c.l., t.l., single shipt. 70,000-lbs. or more, frt. alld lb. .29¼- —
bgs. c.l., t.l. less than 70,000 lbs., same basis lb. .30 • —
bgs. l.c.l. same basis lb .31 • —
Blackberry root bark, bls lb .50 • .55

BLACK PIGMENTS
Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Blanc fixe, direct process, bgs c.l., works ton 145.00 • —
bgs., l.c.l., works ton 155.00 • —
bgs. l.c.l. New York whse ton 195.00 • —
Blood, dried, 16-16½% ammonia, bgs., New York unit-ton. 5.50 • —
Bloodroot, bls. lb. .90 • 1.00

BLUE PIGMENTS
Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes)
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms lb. 2.20 • 2.85
Peruvian, dms. ..... lb. 1.95 • 2.50
BON acid maroons, pure, bbls lb 1.75 • —
Resinated, bbls lb 1.50 —
Bone black, dms., l.c.l., frt. alld lb. .19½- .20.4
Pacific coast bone black prices 2c per lb higher
Bonemeal, steamed, works, E ton 80.00 • —
Bone phosphate, defluorinated, of lime (see Defluorinated phosphate).
Bone phosphate, precip. (see Calcium phosphate, tribasic).
Borax, tech., anhyd., 99½%, bgs., c.l. works ton 92.00 • —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 7.42 • —
bgs., smaller lots, same basis 100 lbs. 8.67 -10.67
bulk, c.l., works ..... ton 83.00 • —
gran., decahydrate, 99½% bgs., c.l., works ton 50.00 • —
bgs., ton lots, ex wase, New York or Chicago 100 lbs. 5.32 • —
bgs., smaller lots same basis, 100 lbs. 6.57 - 8.57
bulk, c.l., works ton 43.50 • —
gran., pentahydrate, 99½% bgs., c.l. works ton 64.50 • —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.05 • —
bgs., smaller lots, same basis 100 lbs. 7.30 - 9.30
bulk, c.l., works ..... ton 58.00 • —
USP, powd., bgs., c.l., works ton 54.00 • —
bgs., ton lots, ex whse, New York or Chicago 100 lbs 6.45 • —
bgs., smaller lots, same basis, 100 lbs. 7.70 - 9.70
Bordeaux powder, tribasic bgs., c.l., dlvd lb. .24 • —
bgs. l.c.l., same basis lb. .26 • —
Boric acid, tech. anhyd. 99.9% bgs., c.l. works ton 335.00 • —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 19.62 • —
bgs., smaller lots, same basis, 100 lbs. 20.87 -22.67
cryst., 99.9%, bgs., c.l., works, ton 163.50 • —
bgs., ton lots ex whse, New York or Chicago 100 lbs. 11.05 • —
bgs., smaller lots, same basis, 100 lbs. 12.30 -14.30
dms., c.l., works ton 188.50 • —
dms., ton lots, ex whse., New York or Chicago, 100 lbs. 12.30 • —
bgs., smaller lots, same basis 100 lbs. 13.05 • —
gran., 99.9% bgs. c.l., works, ton 112.00 • —
bgs. ton lots, ex whse, New York or Chicago 100 lbs. 8.47 • —
bgs., smaller lots same basis, ton 174.25 • —
dms., c.l., works ton 137.00 • —
dms., ton lots, ex whse, New York or Chicago 100lbs. 9.72 • —
dms., smaller lots same basis, 100 lbs. 10.47 • —
bulk, c.l., works ton 106.00 • —
powd., bgs., ton lots ex whse, New York or Chicago, 100 lbs. 8.85 • —
bgs. smaller lots, same basis, 100 lbs. 10.10 -12.10
dms., smaller lots, same basis 100 lbs. 11.45 • —
USP boric acid $25 per ton higher in bags.
Borneol, cns. ..... lb 2.75 • —
Boron trichloride, CP, 1,800-lb. cyls., works lb 1.25 • —
100-lb cyls. works lb 1.70 • —
Boron trifluoride, gas, cyls. t.l., works lb .70 • —
cyls., t.l.l., works ..... lb. .70 • —
Brimstone (see Sulfur).
Broenner's acid, bbls. ..... lb 1.53 • —

Bromine, purif., cs., c.l., t.l., dlvd. E of Rockies	lb.	.32	—
cs., l.c.l., same basis	lb.	.34	.39
ret. dms., c.l., t.l., dlvd. E. of Rockies	lb.	.31	—
ret. dms., l.c.l., same basis	lb.	.31	.34
tanks, same basis	lb.	.21½	—
Bromochloromethane, dms., c.l., frt. equald	lb.	.48	—
dms., l.c.l., same basis	lb.	.50	—
tanks, same basis	lb.	.47	—
Bromoform, pharmaceutical grade, 100-lb. cbys	lb.	1.80	1.90
Bromstyrol, bots.	lb.	5.35	5.70
Brucine, cns.	oz.	1.75	Nom.
Brucine sulfate, NF, cns.	oz.	1.75	1.90
Buchu leaves, bls.	lb.	.75	.80

BROWN PIGMENTS

Brown pigment quotations are listed individually. For example, prices on Brown, iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, refd. cyls., c.l., refy	lb.	.21	—
cyls., l.c.l. refy	lb.	.22	—
tanks, dlvd.	lb.	.14½	—
Butene-1, tanks, works	lb.	.0625	—
Butene-2, tanks, works	lb.	.0570	—
n-Butyl acetate, ferment, dms., c.l., frt. alld	lb.	.17	—
dms., l.c.l., same basis	lb.	.18½	—
tanks, same basis	lb.	.14½	—
Syn., dms., c.l., dlvd. E	lb.	.17	—
dms., l.c.l., same basis	lb.	.18½	—
tanks, same basis	lb.	.14½	—
sec-Butyl acetate, syn., dms., c.l., dlvd.E	lb.	.14¾	—
dms., l.c.l., same basis	lb.	.16¼	—
tanks, same basis	lb.	.12¼	—
n-Butyl acrylate, dms., c.l. or t.l., straight or mixed frt. alld E.	lb.	.42½	—
dms., t.t.l., same basis	lb.	.43½	—
tanks, same basis	lb.	.40	—

Prices of n-butyl acrylate are 1c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

n-Butyl alcohol, ferment, dms., c.l., frt. alld	lb.	.18	—
dms., l.c.l., frt. alld	lb.	.19½	—
tanks, frt. alld	lb.	.15½	—
n-Butyl alcohol, syn., dms., c.l., dlvd	lb.	.18	—
dms., l.c.l., frt. alld	lb.	.19½	—
tanks, dlvd	lb.	.15½	—
Sec-synthetic, dms., c.l., dlvd	lb.	.15	—
dms., l.c.l., dlvd	lb.	16½	—
tanks, dlvd	lb.	.12½	—
Tert-synthetic, dms., c.l., frt. alld, dlvd. E	lb.	.15	—
dms., l.c.l. same basis	lb.	.16½	—
tanks, same basis	lb.	.12½	—

Butyl aldehyde (see Butyraldehyde).

Butyl chloride, dms., c.l., works	lb.	.37½	—
dms., l.c.l. works	lb.	.38¼	—
n-Butyl ether, dms., c.l. works	lb.	.35¼	—
dms., l.c.l. works	lb.	.36	—
tanks, works	lb.	.33¼	—
Butyl lactate, dms., c.l., frt. alld. E. of Rockies	lb.	.42½	—
dms., l.c.l. same basis	lb.	.43½	—
tanks, same basis	lb.	.40	—
Butyl laurate, dms., works	lb.	.37½	—
Butyl methacrylate, dms., c.l., t.l., works	lb.	.55	—
dms., l.c.l., works	lb.	.55½	—
Butyl oleate, refd., dms., l.c.l., works	lb	.32	—
Butyl phenylacetate, dms.,	lb	4.50	4.60

Butyl phthalate (see Dihutyl phthalate).

Butyl stearate, dms., c.l., frt. alld. E. of Mississippi	lb.	.27¼	—
dms., l.c.l. same basis	lb.	.28¼	—

Butylamine (see Mono- Di and Tri-butylamine)

tert-Butylamine, dms., c.l., t.l., f.o.b. works	lb.	.47	—
dms., l.c.l., same basis	lb.	.47½	—
tc., t.t., same basis	lb.	.45	—
Butylated hydroxyanisole, food grade, dms., dlvd	lb.	4.75	—

6-tert-Butyl-m-cresol (see Mono-tert-butyl-m-cresol).

Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).

1,3-Butylene glycol, dms., c.l., t.l., dlvd	lb.	.20½	—
dms., l.c.l., t.t.l., f.o.b. works	lb.	.22	—
tanks, dlvd.	lb.	.18	—
p-tert-Butylphenol, bgs., c.l., dlvd.	lb.	.27½	—
bgs., l.c.l., works	lb.	.28½	—
Butyraldehyde, dms., c.l., dlvd	lb.	.22	—
dms., l.c.l., dlvd.	lb.	.23½	—
tanks, dlvd.	lb.	.19½	—
Butyric acid, 99%, dms., c.l., frt. equald	lb.	.34	—
dms., l.c.l., same basis	lb.	.34½	—
tanks, same basis	lb.	.32½	—

Butyric ether (see Ethyl butyrate).

Butyrolactone, dms., c.l., t.l., works	lb.	.40	—
dms., l.c.l., same basis	lb.	.43	—

C

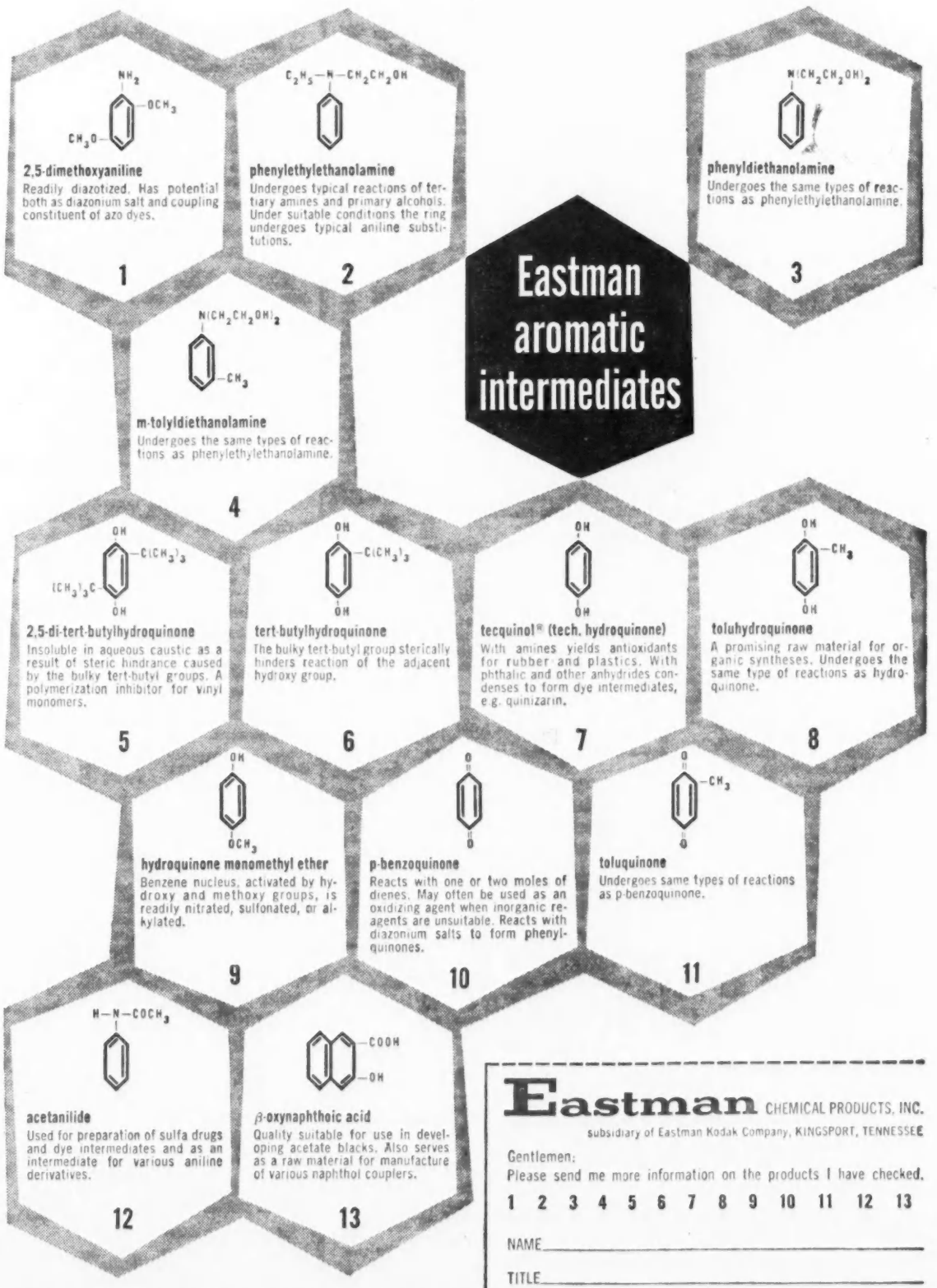
Cacao butter (see Cocoa butter).

Cadmium CP red, dark shade, bbls., frt. alld. E. of Rockies	lb.	5.55	—
Light shade, bbls., same basis	lb.	4.65	—
medium shade, bbls., same basis	lb.	5.30	—
Medium light shade bbls. same basis	lb.	4.90	—
Orange-red shade, bbls., same basis	lb.	4.30	—
Yellow all shades, bbls., frt. alld. E. of Rockies	lb.	2.85	—
Cadmium iodide, 25-lb fib dms.	lb	6.75	7.00
Cadmium metal, ingots or sticks, ton lots, cs., dlvd	lb.	1.30	—
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld. E. of Rockies	lb.	1.65	—
Cadmium-mercury lithopone red, dark shade, bbls., same basis	lb.	1.95	—
Red, light shade, bbls. same basis	lb.	1.72	—
Red, medium shade, bbls., same basis	lb.	1.87	—
Red, medium light shade, bbls., same basis	lb.	1.80	—
Red, maroon shade, bbls. same basis	lb.	2.03	—
Cadmium-selenide lithopone maroon, bbls., frt. alld. E. of Rockies	lb.	2.76	—
Orange, bbls., same basis	lb.	1.58	—
Cadmium-selenide lithopone red, orange-red shade, bbls. same basis	lb.	1.72	—
Red, dark shade, bbls., same basis	lb.	2.56	—
Red, light shade bbls. same basis	lb.	1.88	—
Red, medium-light shade, bbls. same basis	lb.	2.00	—
Red, medium shade, bbls. same basis	lb.	2.23	—
Cadmium-selenide, lithopone yellow, all shades, bbls., frt. alld. E. of Rockies	lb.	1.19	—
Caffeine, NF, citrated, ums., 100-lb. lots or more	lb.	2.70	—
USP, nat., cryst., anhyd., dms., 100-lb lots or more	lb.	2.10	—
cryst., hydrous, dms., 100-lb. lots or more	lb.	1.98	—
USP, syn., anhyd., dms., 100-lb. lots or more	lb.	2.10	—
cryst., hydrous, dms., 100-lb. lots or more	lb.	1.96	—
Cajuput oil, native cns.	lb.	1.75	2.55
Redist., USP cns	lb.	1.90	2.10
Calamine, USP, dms.	lb.	.34	—
Calamus oil, bots	lb.	12.00	20.00
Calciferol, cryst., 10-kilo or more lots, works	gram	.54	—
1-10 kilo lots	gram	.55	—

Calciferol in edible oil (see Viosterol).

Calcium p-aminosalicylate trihydrate fib dms., 100 lbs. or more, frt. adjusted	lb.	3.10	—
Calcium arsenate, dealers, bgs., c.l., frt. alld	lb.	.09	.09¼
bgs., l.c.l. same basis	lb.	.10	.10½
Calcium bromide, NF, jars, 100 lbs. or more	lb.	.97	—
Calcium carbide, standard generator size, 600-lb dms. c.l., dlvd	ton.	149.00	—
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works	ton.	10.50	—
chalk, whiting, 325 mesh, bgs., c.l., works	ton.	32.00	34.00
water-grd., ½ to 10 microns, bgs., c.l., works	ton.	30.00	—
10 to 20 microns, bgs., c.l., works	ton.	17.00	18.00
Calcium carbonate, precip., dense, bgs., c.l., works	ton.	30.00	38.50
bgs., l.c.l., works	ton.	45.00	53.50
medium, bgs. c.l., works	ton	38.00	—
bgs., l.c.l., works	ton.	48.00	53.00
surface treated, bgs., c.l., works.	ton.	42.00	44.00
bgs., l.c.l., works	ton.	57.00	59.00
ultrafine, bgs., c.l., works	ton.	117.50	167.50
bgs., l.c.l., works	ton.	137.50	187.50
Calcium chloride, conc., flake or pellet, 94-97%, paper bgs., c.l., works, frt. equald	ton.	37.80	—
Flake, 77-80%, paper bgs., c.l., works, frt. equald	ton.	31.00	—
Liquor, 40%, tanks, frt. equald.	ton.	12.50	—
Powd., 77% min., paper bgs., c.l., works, frt. equald	ton.	37.00	—
Purif., gran., dms	lb.	.27	—
Solid, 73-75%, dms., c.l., frt. equald	ton.	29.50	—
dms. l.c.l., works, frt. equald	ton.	36.00	73.00
USP, gran., dms.	lb	.32	—
Calcium chromate, bgs., dlvd	lb.	.37	—
Calcium cyanide, dms., c.l., dlvd E. of Rockies	lb.	.20	—
dms., l.c.l., same basis	lb.	.24	.55
Calcium cyclamate 100-lb dms	lb.	1.95	—
Calcium gluconate, USP, AA grade, 150-lb. dm., ton	lb.	.73½	—
USP, powd., 150-lb. dm, ton	lb.	.66½	—
Calcium hydride lump, dms., works	lb.	2.20	3.00
Calcium hypochlorite, high test, gran., 45-lb. cs., dlvd. E. of Rockies	cs.	23.85	25.60
100-lb. dms., same basis	dm.	33.30	36.55
Calcium hypophosphite, dms., 1,000 lb lots	lb	1.28	—
Calcium iodide, jars	lb	4.52	—
Calcium lactate, NF, dms., f.o.b. works	lb.	.43	.46
Calcium mandelate, USP, 150-lb. dm., works	lb.	3.25	—
Calcium naphthenate, liq., 4% Ca., dms. frt equald	lb	.30	—
Calcium pantothenate, USP, jars, 1 kilo or more	kilo.	35.00	—
Calcium para-aminosalicylate (see Calcium p-aminosalicylate)			
Calcium phenolsulfonate, dms	lb	1.24	1.25
Calcium phosphate, dibasic, USP, bgs. c.l. frt equald 100 lbs.	ton.	16.00	—
Dibasic, feed grade, 18½% P, bgs., c.l., t.l., frt. equald	ton.	86.00	—
bgs. c.l. t.l. f.o.b. Texas City works	ton.	80.50	—
bgs., l.c.l., frt. equald	ton.	96.00	—
Dibasic, feed grade, 21% P., bgs., c.l., t.l., frt. equald	ton.	97.65	—
bgs., l.c.l., frt. equald	ton.	107.65	—

Prices of calcium phosphate dibasic in bulk $3 per ton less than bg., c.l. prices


Eastman aromatic intermediates
2,5-dimethoxyaniline
Readily diazotized. Has potential both as diazonium salt and coupling constituent of azo dyes.
1
phenylethylethanolamine
Undergoes typical reactions of tertiary amines and primary alcohols. Under suitable conditions the ring undergoes typical aniline substitutions.
2
phenyldiethanolamine
Undergoes the same types of reactions as phenylethylethanolamine.
3
m-tolyldiethanolamine
Undergoes the same types of reactions as phenylethylethanolamine.
4
2,5-di-tert-butylhydroquinone
Insoluble in aqueous caustic as a result of steric hindrance caused by the bulky tert-butyl groups. A polymerization inhibitor for vinyl monomers.
5
tert-butylhydroquinone
The bulky tert-butyl group sterically hinders reaction of the adjacent hydroxy group.
6
tecquinol® (tech. hydroquinone)
With amines yields antioxidants for rubber and plastics. With phthalic and other anhydrides condenses to form dye intermediates, e.g. quinizarin.
7
toluhydroquinone
A promising raw material for organic syntheses. Undergoes the same type of reactions as hydroquinone.
8
hydroquinone monomethyl ether
Benzene nucleus, activated by hydroxy and methoxy groups, is readily nitrated, sulfonated, or alkylated.
9
p-benzoquinone
Reacts with one or two moles of dienes. May often be used as an oxidizing agent when inorganic reagents are unsuitable. Reacts with diazonium salts to form phenylquinones.
10
toluquinone
Undergoes same types of reactions as p-benzoquinone.
11
acetanilide
Used for preparation of sulfa drugs and dye intermediates and as an intermediate for various aniline derivatives.
12
β-oxynaphthoic acid
Quality suitable for use in developing acetate blacks. Also serves as a raw material for manufacture of various naphthol couplers.
13

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Calcium phosphate monobasic, bgs., 10,000-lb lots, frt. equald, 100 lbs. 7.45 - —
bgs. smaller lots same basis, 100 lbs. 7.95 - —
Tribasic NF, precip., bgs., c.l., works, frt. equald 100 lbs. 9.25 - —
bgs. l.c.l. frt. equald, 100 lbs. 10.00 - —
Calcium phytate bgs. 50 lbs. or more, f.o.b. warehouse N Y lb. .39 - —
Calcium resinate precip dms ton lots, frt. alld., works lb. .40¼ - —
Calcium silicate hydrated bgs. c.l., works lb .06 - —
bgs. l.c.l., works lb .06½ - —
Calcium silicate, paint grade (see Wollastonite)
Calcium stearate ctns. c.l. .... lb. .39 - —
ctns. l.c.l. ..... lb 40 .44
Calcium sulfate (see Gypsum)
Calomel, NF, mild, powd., dms., 100-lbs., f.o.b. works lb. 5.42 - —
NF, mild, precip., dms., 100-lbs., f.o.b. works lb. 5.07 - —
Camphene 46° m.p. dms incl. c.l., works lb. .15 - —
dms. incl. l.c.l. same basis lb. .16½ - —
tanks same basis lb. .12½ - —
Camphene, chlorinated 67-69% (see Toxaphene)
Camphor monobromated, NF, dms., kgs lb 3.63 3.70
Nat., USP, powd., cs., 100-lb. lots, lb. .60 - .65
tablets, 1-oz. cs ... lb 85 .90
Nat., USP, gran., bbls., 2,000-lb. lots, lb. .59 - —
Syn., tech., 1 bbl. or more lb. .48 - —
Syn., USP gran., powd., bbls., 1,000-lb lots lb .60 - —
bbls. smaller lots lb .61 - —
tablets, ctns., 1,000-lb. lots, lb. .85 - —
ctns 500-lb lots .... lb .86 - —
ctns smaller lots .... lb .87 - —
Camphor oil, sassafrassy dms. lb .35 - .55
White dms lb .26 .50
Cananga oil, native, cns ..... lb. 5.00 - 6.50
Rectified, cns. ..... lb. 7.25 - 10.00
Candelilla wax, crude, bgs ..... lb. .65 - .70
Refd., pure, bgs ..... lb. .70 - .71
Powdered Candelilla wax 20 to 100 mesh, 8c. higher
Cantharides, Chinese, cs ..... lb. 1.00 - —
powd., bgs. ..... lb. 1.15 - —
Russian, bgs. ..... lb. 2.00 - 2.15
powd., bgs. ..... lb. 2.15 - 2.30
Capric acid, dms ..... lb .35½ .38
tanks ..... lb. .33 - .34½
Caprolactum monomer, bgs., c.l., t.l., f.o.b. works lb. .52 - —
bgs., l.c.l., l.t.l. same basis .... lb. .57 - —
tanks, same basis ..... lb. .49 - —
Caryl alcohol, 85% dms., c.l., and t.l., works lb .19 - —
dms., l.t.l. same basis .... lb .19½ - —
tanks, frt equald lb. .16½ - —
Sec. 92-99%, dms., c.l., f.o.b. works. lb. .22 - —
dms., l.c.l., f.o.b. works .... lb. .23 - —
tanks, f.o.b. works ..... lb. .19½ - —
Caprylic acid, dms ..... lb .35½ .38
tanks ..... lb .33 - —
Capsicum (see Pepper red)
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin, NF, from dom pepper, dms lb. 4.00 - —
NF, from African pepper, dms. lb 4.50 - —
Caraway oil, NF, dms. ..... lb. 3.15 - 3.40
Caraway seed, Danish, bgs ..... lb. .16 - —
Dutch, bgs. ..... lb. .17½ - —
Polish, bgs. ..... lb. .17¼ - —
Carbazole, 97%, bbls., ton lots, works lb 1.05 - —
Carbon black, channel, rubber beads, bulk, c.l., works lb. .08 - —
bgs., c.l., works ..... lb. .08½ - —
bgs., l.c.l., works ..... lb. .16¼ - —
Furnace, fast extruding, bgs., c.l., works lb. .06¾ - —
ctns. l.c.l., whse lb. .13½ - —
high abrasion, bulk, c.l., works. lb. .07¼ - —
bgs., c.l. works ..... lb. .07¾ - —
bgs., l.c.l., dlvd. or whse lb. .14½ - —
high modulus, bgs., c.l., works. lb .06¼ - —
ctns., l.c.l., whse. ..... lb. .13 - —
semi-reinforcing, bgs., c.l., works. lb. .05¾ - —
bgs., ctns., l.c.l., whse. ... lb. .12½ - —
Carbon black, pigment, high color beads, ctns., c.l., works lb. .72 - —
ctns., l.c.l., dlvd. or whse lb. .79 - —
medium color, uncompressed bgs., c.l., works lb. .14 - —
bgs., l.c.l., dlvd. or whse lb. .22½ - —
Carbon dioxide, indust. wholesale, bulk, 30,000-2,999,999 lbs., dlvd. Metropolitan areas, E. ton 60.00 - 115.00
bulk, 3,000,000 lbs. of more, dlvd., Metropolitan areas, E ton 55.00 - —
Solid, bulk, wholesale, works ton 85.00 - —
Carbon disulfide, 55-gal. dms., c.l., works, frt. equald to competitive points lb. .071 - —
55-gal. dms., l.c.l., same basis lb. .086 - .091
5-gal. dms., 30 dms to c.l., same basis lb. .131 - —
5-gal. dms., less than 30 dms., same basis lb. .161 - —
tanks, dlvd. ..... lb. .0545 - —
Carbon tetrachloride, CP, consumers, dms c.l. frt. alld lb. .12¾ - —
dms., l.c.l., frt. alld ..... lb. .15¼ - —
Tech., consumers, dms., c.l., t.l., frt. alld lb. .11¾ - —
dms., l.c.l., l.t.l., frt. alld lb. .14¼ - —
tanks, frt. alld ..... lb. .10¾ - .11¼
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100 lb. lots, works lb. 4.00 4.25
dms smaller lots, works lb 4.10 4.75
Cardamom oil, NF, bots. ..... lb. 39.00 - 42.00
Cardamom seed, bleached "A" .... lb. 3.20 - —
Bleached "B" ..... lb. 3.10 - —
Decorticated, Alleppey, cs .... lb. 2.30 - —
Guatemala, cs. ..... lb. 3.15 - —
Green, Alleppey, bgs ..... lb. 2.25 - —
Ceylon, bgs. ..... lb. 2.15 - —
Carmine No. 40, NF, bulk, 100-lb lots or more, dlvd. .... lb. 16.80 - —
bulk, smaller lots, dlvd .... lb 16.90 - 17.30
Carnauba wax, chalky, bgs., ton lots lb. .70 Nom.
North country, No. 2, crude, bgs., ton lots lb. .80 Nom.
refd., pure, ton lots ..... lb. .86 - .87
Carnauba wax, North Country, No. 3, Ceara, ton lots lb. .69 - .70
Ceara, refd., pure, bgs., ton lots lb. .77 - .78
North country, No. 3, Parnahyba, ton lots. lb. .70 - .71
Parnahyba, refd., pure, bgs., lots lb. .79 - .80
North country, No. 1, Ceara, yellow, bgs., ton lots lb. 1.05 - 1.07
Parnahyba, yellow, bgs., ton lots lb. 1.08 - 1.10
Powdered carnauba wax, 20 to 100 mesh, 8c. higher
Carotene, tech., 1,350,000 A units per gram, tins 5-10 kilo lots, dlvd gram. .20½ - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
USP microcrystalline in oil, 400,000 A units per gram, dms., dlvd million units. .144 - —
b-Carotene, in vegetable oil, semi-solid suspension 400,000 A units per gram cns kilo. 57 60 - —
Liquid in vegetable oil, 500,000 A units per gram cns kilo. 72.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram., cns kilo. 240.00 - —
Carvol, bots. lb 5 00 5 40
Cascara sagrada bark, bulk .... lb. .34 - .36
Casein, dom., edible, acid precip., 30 mesh., bgs., 10,000-lb. lots or more, works lb. .56 - —
edible, acid, precip., 80 mesh, bgs., 10,000-lb lots or more, works lb. .64 - —
Imp., inedible, acid-precip., grd., Argentine, bgs., c.l., ex-dock, Eastern seaports lb. .19¾ - .20
New Zealand, bgs., c.l., same basis lb. .24 - —
Cashewnut shell, liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
dms ton lots same basis lb .23 - —
dms., dm lots, same basis lb .25 - —
Cassella acid, dms. frt alld, 100% basis lb 1 44 1 75
Cassia oil, redist., USP, cns ..... lb. 8.50 - 11.00
Cassia, Padang, A, bls ..... lb .30 - —
"B," bls. ..... lb .29 - —
"C," bls ..... lb .28 - —
Korintje "A," bls ..... lb. .34 - —
"B," bls. ..... lb. .30 - —
"C," bls. ..... lb. .30 - —
Castor oil, dom. blown, dms. c.l. lb .2550 - —
dms., l.c.l. lb .2650 - —
dehydrated bodied, dms. c.l. lb .2700 - —
dms., l.c.l. lb .2850 - —
tanks lb .2500 - —
dehydrated, unbodied, dms., c.l lb .2500 - —
dms., l.c.l. lb .2660 - —
tanks lb .2360 - —
hydrogenated, bgs., c.l. ..... lb. .2450 - —
bgs., ton lots ..... lb .2850 - —
bgs., l.c.l. dlvd ..... lb .3050 - —
No. 1, dms., c.l. ..... lb .2150 - —
dms., l.c.l. ..... lb .2250 - —
tanks ..... lb. .17½ - —
No. 3, tech., dms., c.l. ..... lb .21.5 - —
dms l.c.l ..... lb .2225 - —
tanks ..... lb .1925 - —
refd., deod., dms., c.l ..... lb. .2650 - —
dms., l.c.l. ..... lb. .2750 - —
USP, dms., c.l. ..... lb. .2350 - —
dms., l.c.l. ..... lb .2450 - —
tanks ..... lb .2150 - —
Imported, No. 1, Braz., tanks lb. .18 - —
Sulfonated, 50%, dms., works lb. .15 - .15¼
75%, dms., works ..... lb. .19 - .19½
Castor oil acids, dehydrated, dms. lb 44¼ .46¼
Split dms. lb .37¼ .38½
Castor pomace, bgs. c.l. works ton 35 00 - —
Castoreum nat. cns. ..... lb 5 25 - —
Syn. cns. ..... lb 9 00 - —
Catechol, CP, cryst., fib., dms. works lb. 2 17½ - —
Resub., dms. works lb 4 29½ - —
Catnip leaves, Southern, bls .... lb. Nom.
Caustic potash (see Potash caustic).
Caustic soda (see Soda caustic)
Cedarleaf oil USP XIII cns. dms lb. 2.50 - 3.10
Cedarwood oil, cns., dms ..... lb. .65 - .70
Celery seed, French, bgs ..... lb .33 - —
Indian, bgs. lb .19 - —
Cellulose acetate, flake, powd bgs. t.l., dlvd. E lb. .36 - .51
Cellulose acetate-butyrate powd., 17% butyryl content bgs., dlvd E lb. .545 .555
27% butyryl content, bgs dlvd. E lb. .595 .605
38% butyryl content, bgs. dlvd. E lb. .545 .555
38% butyryl content half-second, bgs. dlvd E lb. .545 .555
50% butyryl content bgs. dlvd., E lb. .585 .595
Cellulose gum, methyl (see Methyl Cellulose)
Cellulose gum, pure high vis. bgs., 23,000-lb lots or more works, frt alld lb .57 - —
bgs., smaller lots, same basis lb. .59 - —
Cerium chloride (see Rare Earth Chloride).
Cerium chloride 46% dms dlvd lb .25 - —
Cerium hydrate 74% CeO fib dms., 100-lb lots or more lb 1.40 - —
77% CeO, fib. dms 100-lb lots or more lb 1.74 - —
Cerium oxalate (see Rare earth oxalate).
Cerium oxide, optical grade, bgs., 50-lb lots or more dlvd lb 1 85 - 1.90
bgs., smaller lots, dlvd ..... lb. 2.15 - —
Cetyl alcohol, NF fib cns. c.l., t.l., dlvd. E lb .41½ - —
fib. cns., l.c.l., same basis lb .43½ - —
tanks, same basis lb .39 - —
Extra, cns., c.l., t.l., dlvd. E lb .48½ - —
fib. cns., l.c.l., same basis lb .50½ - —
tanks, same basis lb .46 - —
Chalk (see Calcium carbonate)
Chamomile flowers, Hungarian, bls lb. 1.10 - —
Roman, cs. ..... lb. 1.50 - 1.75
Chamomile oil, blue Hungarian, bots lb 350 00 - —
Charcoal, activated, NF fib dms., c.l., works lb .25 .32
fib dms. 5-ton lots, works lb. .26½ .32½
fib. dms. smaller lots works lb. .27 - .50
Charcoal, black (see Charcoal, activated)
Charcoal, bone (see Bone black).
Charcoal, hardwood lump bulk c.l., f.o.b. plant ton 55.00 - —
briquets, bulk, c.l., f.o.b. plant ton 78 00 80.00
5-lb. paper bgs., c.l., same basis ton 106.00 - —
25-lb. paper bgs. c.l., f.o.b plant ton 87 00 - —
40-lb paper bgs c.l., same basis ton 84.00 - —
Chenopodium oil NF cns. ... lb 4 15 5.00
Chicago acid paste, bbls frt. alld. lb. 3.21 - —
Chinawood oil (see Tung oil).
Chloral, tech 94% min. dms., c.l., works lb. .23 - —
dms., l.c.l., works lb .24 - —
tanks multiple units, 5 cars, works lb .21 - —
Chloral hydrate USP, jars, 1,000-lb lots lb 1 00 - —
jars, 500-lb lots lb 1.03 - —
jars, 100-lb lots or less lb 1.05 - —
Chlordan, agricultural dms., c.l., frt alld lb 65 - —
dms l.c.l. 5,000 to 10,000-lb lots, frt alld lb 66 - —
Clarified, dms., c.l., frt. alld lb. .69 - —
dms l.c.l. 5,000-10,000-lb lots, frt alld lb 70 - —
Chlorinated paraffin, 42% dms., c.l frt alld lb. .16¼ - —
dms l.c.l. 10 dms or more, same basis lb. 17¼ - —
70%, dms., c.l., same basis ... lb. .18½ - —
dms l.c.l. 10 dms or more, same basis lb. 19¼ - —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 - —
ctns., l.c.l., works lb. .61 - —
125, 1,000 cps., ctns., c.l., works. lb. .70 - —
ctns., l.c.l., works lb. .71 - —
Chlorine, liq., cyls., c.l., works, frt equald lb. .11 —
cyls., l.c.l. Metropolitan area lb. .12½ .13¾
tanks, single units, works, frt. equald 100 lbs 3.15 - —
tanks, multiple units, 5 cars, works, frt equald 100 lbs 4.05 - —
tanks, multiple units 4 cars, same basis 100 lbs 4.25 - —
tanks, multiple units, 2 cars, same basis 100 lbs 5.25 5.75
tanks, multiple units, 1 car, same basis 100 lbs. 6.25 - 7.25
Chloroacetic acid, mono, flake, 99%, purif., c.l lb. .23½ - .25½
dms. l.c.l. lb. 24½ —
tech flake, 96-97% dms., c.l., frt equald lb. .19 - —
dms. l.c.l. frt. equald lb. .20 - —
2-Chloro-4-aminofoluene tech., liq. dms., frt alld lb 1.03 - —
4-Chloro-2-aminotoluene fused bbls. lb. 1.38 - —
6-Chloro-2-aminofoluene tech., liq., dms., frt alld lb. .66 - —
m-Chloroaniline dms. c.l. frt alld. lb .75 - —
dms., l.c.l. same basis lb. .77 - —
tanks, same basis lb. .73 - —
o-Chloroaniline dms. c.l., frt alld. lb .52 - —
dms., l.c.l., same basis ..... lb. .54 - —
tanks, same basis ..... lb .50 - —
p-Chloroaniline dms. c.l. frt alld. lb .77 - —
dms., l.c.l. same basis lb .79 - —
o-Chlorobenzaldehyde, dms., t.l., works lb. 1.05 - —
dms., l.t.l., same basis lb 1.20 - —
p-Chlorobenzaldehyde, dms l.c.l., works lb. 1.95 - —
o-Chlorobenzoic acid, fib dms., t.l., works lb 1.10 - —
fib dms. smaller lots works lb 1.25 - —
p-Chlorobenzoic acid, fib dms., 2,000-lbs. or more, works. lb 2.25 - —
fib. dms., less than 2,000-lbs., same basis lb 2.30 - —
Chloroform, tech., dms. c.l. dlvd. E lb. .18 - —
dms., l.c.l., same basis lb .19 - —
tanks same basis lb .17 - —
USP, dms., c.l., dlvd. ..... lb. .27 - —
dms. l.c.l. dlvd lb. .30 - —
tanks minimum 4,000 gals. dlvd. lb. .25 - —
2-Chloro-4-nitroaniline, paste, dlvd. E 100% basis lb. .81 - —
Powd. dlvd E. 100% basis lb. .86½ - —
4-Chloro-2-nitroaniline, powd dlvd. E lb. .86 - —
4-Chloro-2-nitrophenol, tech. paste, dms. frt alld lb. .75 - —
4-Chloro-2-nitrotoluene tech. solid, dms. frt alld lb. .99 - —
6-Chloro-2-nitrotoluene, tech., solid, dms. frt alld lb. .17 - —
o-Chlorophenol, dms. c.l., frt. equald lb. .37 - —
dms. l.c.l. same basis lb. .38 - —
p-Chlorophenol, dms. c.l., frt. equald lb. .37 - —
dms l.c.l. same basis lb. .38 - —
Chloropicrin, comil. cyls., 180 lbs. frt alld lb 1.07 - —
cyls. 100 lbs. same basis lb 1.08 - —
cyls., 50 lbs., same basis lb 1.14 - —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465 - —
dms., l.c.l. frt. equald lb. .0515 - —
tanks, frt. equald lb. .0415 - —
Chlorosulfonic acid, in stainless steel dms ½c per lb higher
o-Chlorotoluene, tech. dms., t.l., works lb. .37 - —
dms. l.c.l., l.t.l. same basis lb .38 - —
Choline bitartrate, fib dms. frt. adjusted kilo 2.75 3.00
Choline chloride, fib dms. frt. adjusted kilo 2.75 3.00
Choline dihydrogen citrate, fib. dms., frt adjusted kilo 2.75 3.00
Chrome green, CP dark, light medium blue content 1-15%, bbls., dlvd. E. of Rockies lb. .43 - —
blue content 16-30%, bbls., same basis lb. .44 - —
blue content 31-45%, bbls., same basis lb. .44 - —
blue content 45-49%, bbls., same basis lb. .45 —
Reduced color 25% ..... lb. .20 —
Chrome green prices 1c. higher W. of Rockies.
Chrome orange, CP, bbls., dlvd. E. of Rockies lb. .35 - —
Chrome orange prices 1c. higher W. of Rockies.
Chrome yellow, CP bbls., dlvd. E. of Rockies lb. .35 - —
Chrome yellow price 1c. higher W. of Rockies
Chromic acid, 99¾%, dms., c.l., works, frt. equald lb. .29½ - —
dms., l.c.l., dlvd. N. Y. Metropolitan area lb. .30 - .31
Chromic acid, NF (see Chromium trioxide)
Chromium acetate, soln., 7½%, dms. 500-2,000-lb. lots, works. lb. .10 - —
Chromium fluoride, bbls., works lb. .31 - .32
Chromium oxide, hydrated, bbls., fib dms., c.l., frt. alld lb. 1.20 - —
Pure, bgs., c.l., frt. alld. ..... lb. .44½ - —
bgs., l.c.l. same basis ..... lb. .45¼ - —
Chromium trioxide, NF bots ... lb. 1.15 - —
Cinchona bark NF, red, broken, bgs lb. .25 - —
NF yellow broken, bgs. ..... lb. .35 - .40
Cinnamic acid refd bots. .... lb 2.50 3.50
Cinnamic alcohol, bots. ..... lb. 1.75 - 2.20
Cinnamic aldehyde, dms ..... lb. .92 1.25
Cinnamon, Ceylon, No. 2, bgs.. lb. .62 - —
Ceylon, No. "0000," bgs ..... lb. .78 - —
Cinnamon bark oil bots lb 36.00 - 70.00
Cinnamon leaf oil, crude, dms lb. 1.60 - 2.00
USP (Cassia), cns., dms lb 8.50 - 13.50
Citral, CP bots. ..... lb. 3.75 - 4.25
Extra, bots. ..... lb. 4.50 - 6.10
Citric acid USP anhyd., fine gran., bgs., dms., c.l lb. .29½ - .30
bgs. dms. 10,000-lb lots, 1 shipt lb. .30 - .30⅛
bgs. dms., smaller lots lb. .30½ - .31
USP, hydrous, fine gran., bgs., dms., c.l lb. .27½ - .28
bgs. dms., 10,000-lb lots, 1 shipt lb. .28 - .28⅛
bgs. dms., smaller lots lb. .29 - .29½
Powdered citric acid ½c. per lb higher
Citronella oil, Ceylon, dms. ..... lb. .95 - 1.05
Java-type, dms. ..... lb. .85 - 1.25
Citronellal, bots. dms ..... lb 1.60 2.10
Citronellol, bots., dms ..... lb. 2.30 3.70
Civet, artif. bots. ..... lb 13.75 - 15.00
Nat. bots ..... oz. 8.50 - 15.00
Clay, hall, dom., airfloated, bgs. c.l., Tenn ton 17.50 - 21.50
crushed shed moisture, bulk, c.l. Tenn ton 8.00 - 11.00
imp., airfloated, bgs., c.l., Atl. port net-ton 42.00 - 45.75
lump, bulk, Atl port net-ton 29 50 - 35 75
Clay, China, dom., dry-grd. airfloated, 99% 325 mesh Georgia bgs. c.l., works ton 10.00 - 12.00
Georgia, bgs. l.c.l. works, ton 15.50 —
dom., airfloated, 99%, 300 mesh bgs., c.l., Georgia, works ton 13.50 - 14.50
bgs. l.c.l. ex-whse ton 35.00 - 36.00
imp., white, lump, bulk, c.l., ex-dock, Philadelphia, Portland, Me long-ton 20.00 - 35.00
white, powd., bgs., c.l., ex dock, net-ton 50.00 —
bgs., l.c.l. ex whse net-ton 60.00 - 70.00
Cleaners Naphtha petroleum, 105° F Flash, tankcars, New Jersey and New York gal. .18 —
Group 3 ..... gal. .12875 - —
Houston, Texas ..... gal. .145 - —
140° F Flash, tankcars, New Jersey or New York gal. .205 - —
Group 3 ..... gal. .154 - —
Houston, Texas ..... gal. .17 - —
Cleve's acid tech., mixed, solid, dms., frt alld lb. 1.05 - —
1.6, tech, solid, dms., frt. alld lb. .77 - —
1.7, tech. dms. frt alld. lb 2.20 - —
Cloves, Madagascar, bgs ..... lb. .40½ - —
Zanzibar, bgs. ..... lb. .42½ - —
Clove bud oil, USP, dms ..... lb 2.70 3.60
Clove leaf oil, crude, dms ... lb. 1.35 - 1.80
CMC, crude, 96.4% low or medium vis., bgs. or fib dms., 23,000 lbs., dlvd E., 100% basis lb. .41½ - —
96.4% low, or medium vis., bgs. or fib. dms., 23,000 lbs. dlvd E., 100% basis lb. .43½ - —
65%, low or medium vis., bgs., or fib dms., c.l., dlvd. E., 100% basis lb. .41½ - —
bgs. or fib. dms. l.c.l. dlvd. E., 100% basis lb. .43½ - —
CMC, purif., high vis. (see Cellulose gum)
CMC, standard, low or medium vis., bgs. 23,000 lbs., works, frt. alld lb. .57 - —
bgs. smaller lots, same basis, lb. .59 - —
CMC prices W. of the Rockies are 2c. per lb. lower and are on a works basis.
Coaltar, crude, resale for solns., tanks, works gal. .17 - —
Refd., resale, indust., dms., c.l., ex whse gal. .35 - —
dms. l.c.l., ex whse. gal. .39 - —
tanks, works gal. 20½ - —
Coaltar pitch, aluminum, bulk, works ton 44 00 - —
Carbon and indust. bulk, works ton 44 00 - —
Core, bulk, works ..... ton. 40.50 - —
Fiber, bulk, works ..... ton 48 00 - —
Roofing, 140-155° F., Federal Specification RP-381 Type I, tanks works ton 41 00 - —
Cobalt acetate, 23.7% Co., dms dlvd lb 1.04 - —
Cobalt blue, genuine, 25.0 lb bbls. dlvd E of Rockies lb 4.90 - —
Cobalt blue prices 1c. higher W. of Rockies
Cobalt blue, imitation (see Ultramarine blue)
Cobalt carbonate, 48% Co., powd., bgs., dlvd lb 1.45 - —
Cobalt chloride, 24.2% Co., dms., dlvd lb. .99 - —
Cobalt hydrate, 60-61% Co., dms., dlvd lb 2.05 - —
Cobalt linoleate, fused 8½% Co., dms lb. 71½ - —
Liq. 6% Co. dms. lb. 57½ - —
Cobalt metal, 99%, dms., f.o.b. carrier lb. 1.50 - —
Cobalt naphthenate, liq., 6% Co., dms. dlvd lb. 48¾ - —
Cobalt nitrate, 20.1% Co. bbls., dlvd. lb. .80 - —
Cobalt oxide, black, ceramic grade, 72½-73¼% Co., kgs., dlvd. E. of Mississippi R lb. 1.15 - —
70-71% Co., kgs., same basis lb. 1.12 - —
Cobalt oxide prices W. of Mississippi R. 3c. per pound higher
Cobalt phosphate, powd., 32.1% Co., dms., dlvd lb 1.35 - —
Cobalt resinate, fused, 3% Co., dms. lb. .33½ - —
Cobalt sulfate, cryst. 21% Co., dms. dlvd lb. .64 - —
Monohydrated, 33% Co., dms., dlvd lb. 1.09 - —
Cobalt tallate, 6% Co., dms., dlvd. lb. 44 - —
Cocaine, USP, cns., 100-oz. lots, f.o.b. works oz. 17.50 - —
Cocaine hydrochloride cns., 100-oz lots, f.o.b. works oz. 13.75 - —
Cocillana bark, bls ..... lb. .18 - .20
Cocoa butter, bgs ..... lb. .55 - .60

Coconut oil, crude, tanks, New York	lb.	.18¼-	—
tanks, Pac. coast	lb.	.16¾-	—
Refd., deodorized, dms.	lb.	.26 -	.27
Coconut oil acids, dist., dms.	lb.	.30½-	.33
tanks	lb.	.28 -	—
Double dist. (stripped), dms.	lb.	.31½-	.34
tanks	lb.	.29 -	—
Cod oil, dms., spot	lb.	.08¾-	.08½
Codeine, NF, cns., 100-oz lots	oz.	13.25 -	—
Codeine hydrochloride, cns., 100-oz. lots	oz.	11.75 -	—
Codeine phosphate, USP, cns., 100-oz. lots	oz.	10.25 -	—
Codeine sulfate, USP, cns., 100-oz. lots	oz.	10.75 -	—
Codliver oil, USP, dms.	gal.	1.40 -	1.70
Cohosh root, black, bls.	lb.	.20 -	.25
Blue, bls.	lb.	.20 -	.25
Colchicine, USP, bots.	oz.	29.00 -	—
Colchicum root, bls	lb.	.35 -	.45
Colchicum seed, bgs	lb.	1.00 -	1.25
Collodion, USP, dms.	lb.	.32½-	—
USP, flexible, dms.	lb.	.34 -	—
Colocynth pulp, bls	lb.	.75 -	—
Colombo root, bls	lb.	.16 -	.18
Condurango bark, bls	lb.	.18 -	.20
Congo copal gum, No. 1, bgs	lb.	.25 -	.27
No. 2 bgs	lb	.22 -	.24
No. 3, bgs.	lb.	.17 -	.20
Copaiba balsam, cns., dms.	lb.	.60 -	.65
Copaiba oil, cns.	lb.	1.35 -	2.00
Copper acetate, bbls., c.l., works	lb.	.53 -	—
bbls., l.c.l., works	lb.	.54 -	—
Copper carbonate, 55%, bgs., c.l., works	lb.	.3635-	—
bgs., l.c.l., works	lb.	.3785-	—
Copper chloride, cupric, anhyd., dms., works	lb.	.45½-	.46
cryst., dihydrate, dms., works,	lb.	.31 -	.31½
cryst., dried, dms., works	lb.	.39¼-	.39¾
Copper chloride, cuprous, dms., works	lb.	.4135-	.4435
Copper cyanide, tech., dms., 20,000-lb lots or more	lb.	.609 -	—
dms., 1,000-lb. lots or more	lb.	.619 -	—
dms., smaller lots	lb.	.639 -	.65
Copper gluconate, dms.	lb.	3.20 -	—
Copper hydrate dms., c.l., frt. alld. E. of Miss.	lb.	.53½-	—
dms., l.c.l., same basis	lb.	.54 -	—
Copper metal, electrolytic, dlvd. Valley basis	lb.	.33 -	.36
Copper naphthenate, liq., 8% Cu, dms., frt. alld	lb.	.26½-	—
Copper nitrate, tech., cryst., dms., works	lb.	.30¾-	.32¾
Copper oleate, solid, 9% Cu, dms., works	lb.	.45 -	—
Copper oxide, black, bbls., 100-5,000-lb. lots, works	lb.	.49¼-	—
Copper oxide, red, 97%, USN Type I, bbls., 100-5,000-lb. lots	lb.	.50½-	—
90%, USN Type II, bbls., 100-5,000-lb. lots or more, works,	lb.	.48½-	—
Copper quinolinolate, 18% Cu, dms., ton lots	lb.	4.25 -	—
10% active quinolinolate, dms	lb.	1.14	1.15
Copper resinate, precip, dms., frt. alld	lb.	.41½-	—
Copper sulfate, CP, gran., dms., works	lb.	.1885-	—
Cryst., 99%, bgs., c.l., works,	100 lbs.	13.00 -	—
bgs., l.c.l., works	100 lbs.	13.25	15.75
Copper sulfate, monohydrated, 35%, dms., c.l., works	100 lbs.	24.00 -	—
dms., l.c.l., works	100 lbs.	24.75 -	—
Copper sulfate, tribasic distributors, bgs., c.l., works	100 lbs.	29.60 -	—
bgs., l.c.l., works	100 lbs.	31.10 -	—
Copper undecylenate, dms.	lb	2.75 -	—
Copra, Atl., Gulf ports, c.i.f.	ton.	230.00 -	—
Pac. ports, c.i.f.	ton.	225.00 -	—
Coriander oil, USP, bots.	lb.	9.00	10.00
Coriander seed, Moroccan, bgs	lb.	.08 -	—
Rumanian, bgs.	lb.	.07½-	—
Yugoslavian, bgs.	lb.	.08½-	—
Corn oil, crude, tanks, works	lb.	.13¾-	—
Foots (soapstock) acid 95%, tanks, New York	lb.	.05 -	—
Refd., salad, dms.	lb.	.1947-	—
tanks	lb.	.1747-	—
Corn oil, acids, dist., dms.	lb.	.16¾-	.19¼
tanks	lb.	.14¼-	—
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min.	100 lbs.	7.30 -	—
paper bgs., l.c.l.	100 lbs.	7.45 -	—
Corn syrup, 42° Be., non-ret. dms., c.l.	100 lbs.	7.31 -	—
non-ret. dms., l.c.l.	100 lbs.	7.46 -	—
Corrosive sublimate (see Mercuric chloride).			
Cortisone acetate, USP, bots., kilo or more	gram	1.05	1.90
Costus oil, bots.	oz.	6.00 -	—
Cottonseed meal, 41%, bgs., Memphis	ton.	59.00 -	—
Cottonseed oil, crude, tanks, South East	lb.	.09½-	.09¾
tanks, Valley	lb.	.09⅜-	.09½
tanks, Texas, Lubbock	lb.	.09¼-	—
tanks, Texas, Waco	lb.	.09⅜-	—
Foots (soapstock), acid 95%, tanks, New York	lb.	.03¾-	—
Refd., salad, dms.	lb.	.14½-	.14¾
tanks	lb.	.12½-	—
Cottonseed oil acids, dist., dms	lb.	.16¾-	.19¼
tanks	lb	14¼-	—
Coumarin, NF, cryst., dms.	lb.	3.30 -	3.40
Cramp bark, NF, bls.	lb.	.90 -	1.00
Cream of tartar (see Potassium bitartrate).			
Creosote carbonate, NF, bots, cbys.	lb.	3.05 -	3.20
Creosote, coaltar, crude, tanks, works, frt. adjusted	gal.	.24 -	—
Crude, soln. 80%, tanks, works,	gal.	.226 -	—
Refd., dms., c.l., works	gal.	.50 -	—
dms., l.c.l., same basis	gal.	.62 -	—
tanks, same basis	gal.	.38 -	—
West Coast creosote prices computed on a basis of 24c per gallon for straight oil and 20c per gallon for coaltar.			
Creosote, beechwood, cbys., dms., f.o.b., works, dlvd. in Metropolitan area	lb.	1.72	1.77
Hardwood, NF, cbys., dms., same basis	lb.	1.42	1.47
Pinewood, dms., incl., c.l., works	lb.	.0561-	—
dms. incl., l.c.l., works	lb.	.0634-	—
dms. incl., l.c.l., ex whse, New York	lb.	.0745-	—
tanks, works	lb.	.0460-	—
Creosote oil (see Creosote coaltar).			
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld	lb.	.16½-	—
non-ret. dms., l.c.l., same basis	lb.	.17½-	—
tanks, same basis	lb.	.145 -	—
USP, non-ret. dms., c.l., same basis	lb.	.18 -	—
non-ret. dms., l.c.l., same basis	lb.	.19 -	—
tanks, same basis	lb.	.16 -	—
m-Cresol, 95-98% dms., c.l., works	lb.	.60 -	—
dms., l.c.l., works	lb.	.61 -	—
m-p-Cresol, 5-95% 3°C., dms., c.l., frt. equald	lb.	.18 -	—
dms., l.c.l., same basis	lb.	.19 -	—
tanks, same basis	lb.	.16 -	—
2,97% 2°C., dms., c.l., frt. equald.	lb.	.22 -	—
dms., l.c.l., same basis	lb.	.23 -	—
tanks, same basis	lb.	.20 -	—
o-Cresol, 30.5°C. m.p. and over, ret. dms., c.l., frt. equald	lb.	.17 -	—
ret. dms., l.c.l., same basis	lb.	.18 -	—
tanks, same basis	lb.	.15 -	—
30°-30.49°C. m.p., dms., c.l., frt. equald	lb.	.16½-	—
ret. dms., l.c.l., same basis	lb.	.17½-	—
tanks, same basis	lb.	.14½-	—
29°-29.9°C. m.p., dms., c.l., frt. equald	lb.	.16 -	—
ret. dms., l.c.l., same basis	lb.	.17 -	—
tanks, same basis	lb.	.14 -	—
25°-28°C. m.p., dms., c.l., frt. equald	lb.	.15 -	—
ret. dms., l.c.l., same basis	lb.	.16 -	—
tanks, same basis	lb.	.13 -	—
p-Cresol, 98%, dms., c.l., dlvd	lb.	.52 -	—
dms., l.c.l., dlvd.	lb.	.53 -	—
tanks, dlvd.	lb.	.49 -	—
2,3-Cresotic acid, dms., ton lots, works	lb.	.70 -	—
dms., smaller lots, works	lb.	.72 -	—
p-Cresyl methyl ether, cns.	lb.	1.80 -	2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt. equald	gal.	1.35 -	—
dms., l.c.l., same basis	gal.	1.40 -	—
tanks, same bassi	gal.	1.15 -	—
Cresylic acid, coaltar, dom., meta-para content 25% or less, dms., c.l., t.l., same basis	gal.	1.20 -	—
dms., l.c.l., same basis	gal.	1.25 -	—
tanks, frt. equald	gal.	1.00 -	—
Cresylic acid, coaltar, imp., meta-para content, 25% or less, f.o.b. works, frt. equald, to competitive points, 50 dms. or more	gal.	1.03½-	—
less than 50 dms., same basis	gal.	1.05 -	1.15
tanks, same basis	gal.	1.00 -	—
Crotonaldehyde, 91-93%, dms., l.c.l., works	lb.	.25 -	—
Crotonic acid, dms., 200 lbs. or more, l.c.l., dlvd.	lb.	.36 -	—
Cryolite, nat., indust. bgs., c.l., works, 100 lbs.	100 lbs.	13.00 -	—
bgs., l.c.l., works	100 lbs.	14.25 -	—
Cube root, powd., 5% rotenone, bgs., t.l., works	lb.	.21 -	—
bgs., l.t.l., works	lb.	.22 -	—
Cubeb berries, NF, bgs.	lb	1.00 -	—
Powd., cs.	lb	1.15 -	—
Cubeb oil, cns.	lb.	12.00	16.00
Cumene, dms., c.l., works	lb.	.12 -	—
dms., l.c.l., works	lb.	.14 -	—
tanks works	lb.	.11 -	—
Cumin seed, Iranian, bgs	lb.	.30 -	—
Moroccan, bgs.	lb.	.31 -	—
Turkish, bgs.	lb.	.27 -	—
Cumin seed oil, bots., cns.	lb.	15.50	17.00
Cyanamide, fertilizer, mixing grade, 21% N gran. bgs. Niagara Falls Ont., contract	ton	57.00	—
Fertilizer, pulv., 21% N, bgs., works, unit ton	ton	.85	—
Indust. grade, bgs., c.l., works	ton.	75.00 -	—
bgs., l.c.l., works	ton	96.00	—
Indust. grade, 6-16 mesh, dms., c.l. works	ton	120.00	—
dms., l.c.l., works	ton	140.00	—
Cyclohexane, 99% tech., dms., c.l., dlvd. E of Rockies	gal	1.02 -	—
dms., l.c.l., same basis	gal	1.10 -	—
dms., c.l., dlvd. W of Rockies	gal.	.77 -	—
dms., l.c.l., same basis	gal.	.85 -	—
tanks, works	gal.	.55 -	—
98%, tech., 40-dm. lots or more, f.o.b. works	gal.	.56 -	—
5-39 dms., same basis	gal.	.60 -	—
tanks, same basis	gal.	.36 -	—
Cyclohexanol, tech. dms. c.l., works, frt alld E	lb	.28½ -	—
dms., l.c.l., works, same basis	lb	.29½ -	—
tanks, works, same basis	lb.	.28 -	—
Cyclohexanone, tech., dms., c.l., works	lb.	.33½-	—
dms., l.c.l., works	lb	.34½-	—
tanks, works	lb.	.31 -	—
Cyclohexylamine, dms., c.l., works,	lb.	.49 -	—
dms., l.c.l., works	lb	.50 -	—
tanks, works	lb.	.47 -	—
Cypress oil, bots.	lb	5.30 -	—

TC TENNESSEE CORPORATION

COPPER SULFATE

Tennessee Corporation mines Copper and converts it to Copper Sulfate at Copperhill, Tennessee. It is offered in powdered form as well as Large, Medium, Industrial, Granular and Snow Crystals.

Users who require very high uniformity and purity, but at a competitive price, specify TENNESSEE COPPER SULFATE.

Copper Sulfate and other copper chemicals

TENNESSEE TC CORPORATION

615-620 GRANT BUILDING, ATLANTA 3, GEORGIA

D

2,4-D tech. bgs., dms. c.l., works, frt equald lb. .40 - —
bgs., dms., l.c.l., same basis lb. .45 - .49
2,4-D butyl ester, dms. c.l. works, lb. .43 - —
dms. l.c.l. same basis lb. .48 - .52
tanks, same basis lb. .42 - —
2,4-D isopropyl ester, dms., c.l., works lb. .43 - —
dms. l.c.l. works lb. .48 - .52
tanks works lb .42 —
Dammar gum Batavia A E cs lb No stocks
East India, Batu, bold, bgs.. lb. .15 - .17
nubs and chips, bgs lb. .09 - .10
black, bold, bgs lb. .15 - .17
nubs and chips bgs lb 12¼ - .13½
unscraped bgs lb 13 - .14½
pale, chips, bgs lb. .15 - .17
nubs and chips, bgs. lb. .09 - .10
Siam cs lb .30 - .33
Singapore, No. 1, bgs lb. .34 - .40
No 2 bgs lb .29 - .32
No 3 bgs lb No stocks
dust, bgs. lb. .18 - .20
Dandelion root, bls. lb .28 - .32
DDD tech. flake grd. fib. dms., c.l. works lb. .45 - .47
fib. dms. l.c.l., works lb. .46 - .48
DDT flake or lump bgs. c.l., dlvd lb. .23 - —
bgs. smaller lots same basis lb .25 - —
fib dms. c.l., same basis lb .24 - —
fib dms., smaller lots, same basis lb. .26 - —
Powdered DDT 1c. per pound higher
DDVP (see Dimethyl dichlorovinyl phosphate).
1-Decanol tech. dms. c.l., dlvd E. lb. .43½- —
dms., l.c.l., dlvd. E lb. .45½- —
tanks, dlvd. E lb. .41 - —
Decyl alcohol mixed isomers, dms., c.l., dlvd lb. .23½- —
dms. l.c.l., dlvd lb .25 - —
tanks, dlvd lb 21 —
Perfume grade, bots lb. 1.60 - 2.00
Decyl alcohol, normal (see 1-Decanol)
Deertongue leaves, bls lb. .55 - .60
Defluorinated phosphate feed grade 13% P. paper bgs., c.l. t.l., works ton.53.00 - —
18% P. paper bgs. c.l. works ton.66.25 -71.80
19% P paper bgs. works, Houston, Tex., c.l., t.l ton.74.35 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l prices
Degras, common (15-17% free fatty acid), 400-lb. dms lb. .12 - —
Neutral (over 2% free fatty acid), 400-lb. dms. lb. .19 - .23
Denatured alcohol, ethyl CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd E of Rockies gal. .69½- —
dms. l.c.l., same basis gal. 74½ .80½
tanks, dlvd., same basis gal. .53½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division
Denatured alcohol, ethyl, proprietary solvent, dms., c.l. dlvd. E of Rockies gal. .72 - —
dms., l.c.l., same basis gal. 77 - .83
tanks, same basis gal. 56 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, SD1 dms., dlvd E of Rockies gal. .70½- —
dms., l.c.l. same basis gal. .75½ .81½
tanks, same basis gal. .54½- —
SD2B dms., c.l. dlvd. E of Rockies gal. .69 - —
dms., l.c.l., same basis gal. 74 - .80
tanks, same basis gal. .53 - —
SD3A, dms., c.l., dlvd. E of Rockies gal. .68 - —
dms., l.c.l., same basis gal. 73 - .79
tanks, same basis gal. .52 - —
SD23A, dms., l.c.l. dlvd. E of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .80½
tanks, same basis gal. .53½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks same basis gal. .52 - —
SD-35A, dms., c.l., dlvd. E of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
SD-40, dms., c.l., dlvd. E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. 75½ .81½
tanks, same basis gal. .54½- —
For anhyd alcohol on above formulas prices are 7c per gal. higher
West coast dlvd prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained
d-Desoxyephedrine hydrochloride, dms lb.15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms lb 6.50 - —
Dextrin corn gum, paper bgs., c.l., 100 lbs 9.38 - —
paper bgs., l.c.l 100 lbs 9.53 - —
canary dark, paper bgs., c.l. 100 lbs 9.22 - —
paper bgs., l.c.l 100 lbs 9.37 - —
indust. grade, 6-16 mesh, dms., canary light, paper bgs., c.l 100 lbs. 9.12 - —
paper bgs., l.c.l 100 lbs 9.27 - —
white, paper bgs., c.l 100 lbs 8.96 - —
paper bgs l.c.l 100 lbs 9.11 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs higher
Dextrose, anhyd., coml., bgs., c.l., 100 lbs. 8.65 - —
bgs., l.c.l., 100 lbs. 8.80 - —
Anhyd., special, aluminum foil lined fib. dms., 200-lb. dms 100 lbs.14.70 - —
100-lb. dms. 100 lbs.15.20 - —
Hydrated, coml., bgs., c.l., ex whse. 100 lbs. 7.45 - —
bgs., c.l., ex whse.... 100 lbs. 7.60 - —
USP, dms. lb 19¾ - —
Diacetyl, flavor grade, bots lb. 4.50 - 4.55
Di-sec-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Diacetone alcohol, acetone-free, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13 - —
Tech., dms., c.l., dlvd lb. .15 - —
dms., l.c.l., dlvd lb. .16½- —
tanks, dlvd. lb. .12½- —
Diallylamine, dms., c.l., dlvd lb. .98½- —
dms., l.c.l., dlvd lb. 1.00 - —
tanks, dlvd. lb. .96 - —
o-Dianisidine dry, tech. fib. dms. lb. 2.00 - —
Dibenzyl sebacate dms. c.l. works. lb. .93 - —
dms., l.c.l. same basis lb. .94 - —
tanks same basis lb. .91 - —
Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
2,6-Di-tert-butyl-p-cresol, feed grade, c.l., t.l., dms., dlvd lb. .65 - —
l.t.l., dms., same basis lb. .68 - —
Food grade, c.l., t.l. dms., dlvd. lb. .65 - —
dms., l.t.l., same basis lb. .68 - 1.10
Tech., dms., c.l., t.l., dlvd lb. .57 - —
dms., l.c.l., same basis lb. .60 - —
tanks, same basis lb. .54 - —
Dibutyl fumarate dms., c.l., t.l., dlvd. E lb. .31½- —
dms., l.c.l., l.t.l., dlvd. E lb. .33 - —
tanks, dlvd. E lb. .29 - —
Dibutyl maleate dms. c.l., t.l., dlvd. E lb. .31½- —
dms., l.c.l., l.t.l., dlvd. E lb. .33 - —
tanks, dlvd. E lb. .29 - —
Dibutyl phthalate, dms., c.l., dlvd. E. lb. .28½- —
dms., l.c.l., same basis lb. .30 - —
tankcars, tanktrucks, 2,000 gals., same basis lb. .26 - —
tanktrucks, 1,000-1,999 gals. same basis lb. .26½- —
Dibutyl sebacate dms., c.l., works, lb. .67½- —
dms., l.c.l., works lb. .68½- —
tanks, works lb. .65½- —
Dibutyl tartrate, dms., works, frt. alld lb. .65½- —
Dibutylamine, dms. c.l., dlvd lb. .55½- —
dms., l.c.l., same basis lb. .57 - —
tanks, same basis lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .27½- —
dms., l.c.l., dlvd. lb. .29 - —
tanks, dlvd. lb. .25 - —
Dicapryl sebacate, dms., c.l., works. lb. .63 - —
dms., l.c.l., works lb. 63½ .64
tanks, works lb. 61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
3,4-Dichloroaniline, tech., solid, tanks, frt. alld lb. .73 - —
o-Dichlorobenzene, dms. c.l., frt. alld. E lb. .12¾- —
dms., l.c.l. same basis lb. .13¾- —
tanks, same basis lb. .11 - —
p-Dichlorobenzene, dms., c.l. f.o.b., works, frt. alld. E lb. .12 - —
dms. 2,000 lbs. or more same basis. lb. .14½- —
1,4,-Dichlorobutane, dms. c.l. or t.l., works lb. .33½- —
dms., l.c.l., or t.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether dms., c.l. t.l., dlvd. E lb. .15½- —
dms., l.c.l., t.t.l., same basis lb. .17 - —
tanks, same basis lb. .13 - —
Dichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
dms., l.c.l., works lb. .06 - —
tanks, works lb. .03 - —
Dichlorophenoxyacetic acid (see 2,4-D).
Dicyclohexylamine dms. c.l., works. lb. .54 - —
dms., l.c.l. works lb. .55 - —
tanks, works lb. .52 - —
Dicyclohexyl phthalate, gran., fib. dms., c.l., works. frt. alld. lb. .46½- —
fib. dms. l.c.l., same basis lb. .48 - —
Dicyclopentadiene, dms., c.l., f.o.b. works lb. .14½- —
dms., l.c.l., same basis lb. .14¾- —
tanks, same basis lb. .12 - —
Didecyl phthalate, dms. c.l., works. lb. .28½- —
dms., l.c.l., same basis lb. .30 - —
tankcars, tanktrucks 2,000 gals., lb. .26 - —
tanktrucks, 1,000-1,999 gals, same basis lb. .26½- —
Dieldrin, dms., c.l., dlvd lb. 1.85 - —
dms., l.c.l., dlvd lb. 1.90 - —
Diethanolamine, dms., c.l., dlvd E. lb. .27 - —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l., frt. alld lb. .27½- —
dms., l.t.l., frt. alld lb. .28½- —
tanks, frt. alld lb. .26½- —
Diethyl barbituric acid (see Barbital).
Diethyl carbonate, dms. c.l., f.o.b. works lb. .47½- —
dms. l.c.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Diethyl ethanolamines, dms., c.l., dlvd lb. .69½- —
dms., l.c.l., dlvd. lb. .71 - —
tanks, dlvd lb. .67 - —
Diethyl oxalate, dms. c.l. f.o.b. works lb. .42½- —
dms., l.c.l. same basis lb. .43½- —
tanks, same basis lb. .40 - —
Diethyl phthalate, dms., c.l., dlvd. lb. .27½- —
dms., l.c.l., dlvd lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .26½- —
tankcars, tanktrucks, 2,000-lb lots, same basis lb. .26 - —
Diethyl sulfate dms. c.l. works lb. .19½- —
dms., l.c.l. works lb. .20½- —
tanks, works lb. .17½- —
Diethyl thiourea, dms., c.l., t.l., works lb. .58 - —
dms., l.c.l., same basis lb. .59 - —
Diethyl toluamide, 50-95% meta isomer, dms., c.l., t.l., works lb. 2.30 - —
5-44 dm lots, works lb 2.35 - —
1-4 dm lots, works lb. 2.40 - —
N,N-Diethyl-m-toluidine, tech., liq., tanks, frt alld lb. .83 - —
Diethylamine, dms., c.l. dlvd. E lb. .52 - —
dms., l.c.l. same basis lb. .53½- —
tanks, same basis lb. .49½- —
N,N-Diethylaniline dms., c.l., frt. alld lb. .57 - —
dms. l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
Diethylbenzene, dms., t.l., frt. alld. lb. .16½- —
Di-2-ethylhexyl adipate (see Dioctyl adipate)
Di-2-ethylhexyl phthalate (see Dioctyl phthalate)
Diethylene glycol, dms. c.l. dlvd. E lb. .17¾- —
dms., l.c.l., same basis lb. .19¼- —
tanks, same basis lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .51½- —
dms., l.c.l., works lb. .52¼- —
Diethylene glycol monobutyl ether, c.l. dms., works lb. .30¾- —
dms., l.c.l., works lb. .32¼- —
tanks, dlvd E lb. .28¼- —
Diethylene glycol monobutyl ether acetate dms., c.l., works lb. .30¾- —
dms. l.c.l., works lb. .31½- —
tanks, dlvd. E lb. .28¾- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd lb. .22½- —
dms., l.c.l., dlvd lb. .24 - —
tanks, dlvd. E lb. .20 - —
Diethylene glycol monoethyl ether acetate dms., c.l., works lb. .27¼- —
dms. l.c.l. works lb. .28 - —
tanks, works lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l. dlvd lb. .21 - —
dms., l.c.l., dlvd lb. .22½- —
tanks, dlvd. E lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms. l.c.l. dlvd. E lb. .45½- —
tanks, dlvd. E lb. .41½- —
Diethylstilbestrol, USP bots., 10-kilo lots kilo.100.00 -147.50
bots., 1-kilo lot kilo.110.00 -152.50
Digitalis leaves, USP, dom., dms lb. 1.25 - —
Digitoxin, USP, bots gram. 4.20 - —
Diglycol laurate dms lb. .32¾- .34
Diglycol stearate dms. ton lots lb. .26 - .28
Digylcolic acid bgs. c.l. t.l., works. lb. .15½- —
bgs. l.c.l., works lb. .16 - —
Dihexyl sebacate dms., c.l., works. lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks, works lb. .64 - —
Dihydrazine sulfate, dms. works lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram .04 - .041
Dihydrostreptomycin sulfate, bulk, gram .04 - .041
1,2-Dihydroxy anthraquinone, dms., works lb. 3.45 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
tech., dms - 20,000 lbs. or more lb. 1.11 - —
dms., 1,050 lbs. to 20,000 lbs. lb. 1.13 - —
dms., 150 lbs. to 1,050 lbs lb. 1.15 - —
Di-isobutyl ketone, dms. c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd lb. .18½- —
tanks, dlvd. lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd. E lb. .31½- —
dms., l.c.l., same basis lb. .32½- —
tanks same basis lb. .29 - —
Di-isobutylene dms. c.l., dlvd. E lb. .10 - —
dms. l.c.l., dlvd. E lb. .11½- —
tanks, dlvd. E lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .27½- —
dms., l.c.l. same basis lb. .29 - —
tanktrucks, 1,000-1,999 gals., dlvd. lb. .25½- —
tankcars, tanktrucks, 2,000 gals., dlvd lb. .25 - —
Di-iso-octyl sebacate, dms., c.l., works lb. .62 - —
dms., l.c.l., works lb. .62½- .63
tanks, works lb. .60 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .23¼- —
dms., l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .20¾- —
Di-isopropylamine dms., c.l., dlvd. E of Rockies lb. .50½- —
dms., l.c.l., same basis lb. .52 - —
tanks, same basis lb. .48 - —
Dillweed oil, dom., bots., dms. lb. 3.00 - 4.00
Dimethyl anthranilate, cns lb. 4.15 - —
Dimethyl dichlorovinyl phosphate, 55 gal. dms., dlvd lb. 3.50 - —
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd lb. 1.225 - —
dms., l.c.l., dlvd. lb. 1.235 - —
tanks, dlvd. lb. 1.20 - —
70% dms. c.l., dlvd., 100% basis, contained amines lb. .68½- —
dms., l.c.l., dlvd., 100% basis lb. .69½- —
tanks, dlvd. 100% basis lb. .66 - —
Dimethyl hydroquinone, dms. lb. 1.90 - 2.20
Dimethyl phthalate, dms., c.l., works lb. .27½- —
dms., l.c.l., works lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .25½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .25 —
Dimethyl sebacate, dms., c.l., works. lb. 1.31 - —
dms., l.c.l., works lb. 1.30 - —
tanks, works lb. 1.28 - —
Dimethyl sulfate, ret. dms., c.l., works lb. .17½- —
ret. dms., l.c.l., works lb. .18½- —
tanks, works lb. .16½- —
Dimethyl sulfide, dms., c.l., works, lb. .16½- —
dms., l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis lb. .38 - —
dms., l.c.l., frt. equald, 100% basis lb. .38½- —
tanks, frt. equald, 100% basis lb. .28 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, frt. equald, 100% basis, lb. .28 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .28 - —
dms., l.c.l., same basis lb. .29 - —
tanks, same basis lb. .26 - —
N-N-Dimethylformamide, dms., c.l., t.l., works lb. .32½- —
dms., l.c.l., works lb. .33 - .34
tanks, works lb. .30 - —
2,4 Dinitroaniline, dms. frt alld lb. .75 - —
Dinitroaniline orange toner, CP, bbls. dlvd E of Rockies lb. 1.56 - —
Dinitroaniline orange toner prices 1c. higher W of Rockies.
m-Dinitrobenzene, 89°C., dms. lb. .26 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C. dms., c.l., frt. alld. E lb. .17¼- —
dms., l.c.l., frt. alld. E lb. .17¾- —
tanks, frt. alld. E lb. .17 - —
2,4-Dinitrophenol, bbls lb. .41 - —
2,4-Dinitrotoluene, oily dms. lb. .11 - —
Refd. 63°C., dms. lb. .23 - —
Dioctyl adipate dms. c.l., works, lb. .42½- —
dms., l.c.l. works lb. .43½- —
tanks, works lb. .40 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .27½- —
dms. l.c.l. frt alld lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .25½- —
tankcars, tanktrucks, 2,000 gals., same basis lb. .25 —
Dioctyl sebacate, dms. c.l., works. lb. .61¼- —
dms., l.c.l. works lb. .62¼- —
tanks, works, dlvd. lb. .59¼- —
1,4-Dioxane, dms. c.l. works lb. .30 —
dms. l.c.l. works lb. .30¾- —
tanks works lb. .28 —
Dipentaerythritol, bgs., c.l., t.l., dlvd. E lb. .40 - —
bgs., l.c.l., t.t.l., dlvd & lb. .41 - —
Dipentene, dest.-dist. dms., c.l., works gal. .59 - —
dms. l.c.l. works gal. .63 - —
dms., l.c.l. ex whse. gal. .79 - —
tankcars, works gal. .42 - —
Steam dist., dms., c.l., works, South gal. .72 - —
Dipentene, steam, dms., l.c.l., dlvd. New York gal. .91 - —
tanks, works, South gal. .55 - —
Dip oil (see Tar acid oil)
Diphenolic acid, 1,000-lb. or more, bgs., works lb. .75 - —
Diphenolic polyether acids, 1,000-lb. or more, bgs., works lb. 1.00 - —
Diphenyl, bgs., c.l., t.l., works lb. .16¾- —
bgs., l.c.l., works lb. .18½- —
tanks, works lb. .15¾- —
Diphenyl oxide, perfume grade, cns lb. .55 - .70
Diphenyl phthalate, dms., c.l., works. lb. .51¾- —
dms., l.c.l. works lb. .53¾- —
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald lb. .31 - —
bgs., l.c.l., same basis lb. .33 - —
Refd., fused, tanks, same basis lb .28 - —
Refd. diphenylamine in dms. ½c. per lb. higher
Diphenylguanidine bgs., dms., ton, lots, frt. alld lb. .49 - —
bgs. smaller lots, frt. alld. lb. .50 - —
Diphenylhydantoin-sodium, USP dms. lb. 5.00 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17 - —
dms., l.c.l., frt. alld lb. .18½- —
tanks, frt. alld lb. .14¼- —
Dipropylene glycol methyl ether, dms., c.l., dlvd. E lb. .20 - —
dms., l.c.l., same basis lb. .21½- —
tanks, same basis lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works lb. 1.45 - —
Di-o-tolylguanidine, dms., ton lots, frt alld lb. .69 - —
dms., smaller lots, frt alld. lb. .70 - —
Di-o-tolylthiourea, tech., solid, dms., c.l., t.l., frt alld lb. .55 - —
Divinylbenzene, 20-25%, dms., c.l., works, frt equald lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .19 - —
50-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis lb. 1.05 - —
Dodecenyl succinic anhydride, dms., c.l., t.l., dlvd. E lb. .75 - —
dms., l.c.l., t.t.l., same basis lb. .76 - —
Dodecylbenzene, dms., c.l. f.o.b., works, frt. equald lb. .134 - —
dms., l.c.l. same basis lb. .144 - —
tanks, same basis lb. .11 - —
Dodecylphenol c.l., frt. alld. lb. .22 - —
dms., l.c.l. same basis lb. .23 - —
tanks, same basis lb. .19½- —
Dodecylphenol prices on shipments to Western States are 2c. per pound higher
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb and 1-lb. lots, dlvd:
Blue, FD&C, No. 1 lb.15.65 -17.60
No. 2 lb.15.65 -17.60
Green, FD&C, No. 1 lb.15.65 -17.60
No. 2 lb.19.60 -22.85
No. 3 lb.31.30 -35.90
Red, FD&C, No. 1 lb. 5.90 - 7.85
No. 2 lb 3.30 - 4.10
No. 3 lb.19.60 -22.85
No. 4 lb 5.55 - 7.50
Violet, FD&C, No. 1 lb.15.65 -17.60
Yellow, FD&C, No. 1 lb. 9.15 -11.05
No. 5 lb. 3.30 - 4.10
No. 6 lb. 3.30 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—
Black, D&C, No. 1 lb.10.50 -10.95
Brown, D&C, No. 1 lb.15.65 -16.10
Green, D&C, No. 5 lb.15.65 -16.10
No. 6 lb.15.65 -16.10
No. 7 lb.14.35 -14.80
Orange, D&C, No. 3 lb.10.50 -10.95
No. 4 lb.19.60 -20.05
No. 5 lb. 3.80 - 4.25
Red, D&C, No. 17 lb.10.50 -10.95
No. 18 lb.23.60 -24.00
No. 19 lb.15.00 -15.45
No. 21 lb. 3.90 - 4.35
No. 22 lb.10.50 -10.95
No. 28 lb.24.15 -24.65
No. 33 lb.17.00 -17.45
Violet, D&C, No. 2 lb.15.65 -16.10
Yellow, D&C, No. 7 lb.10.50 -10.95
No. 8 lb.10.50 -10.95
No. 10 lb.13.05 -13.50
No. 11 lb.13.05 -13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots dlvd:—
Blue, Ext., D&C, No. 1 lb.15.65 -16.10
Green, Ext., D&C, No. 1 lb.15.65 -16.10
Red, Ext., D&C, No. 2 lb.13.05 -13.50
Yellow, Ext., D&C, No. 2 lb.10.50 -10.95
Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract dlvd. No.
11110 Brillant scarlet BN lb. 1.79 - —
15390 Fast blue SR lb. 1.43 - —
14025 Yellow 2G lb. 1.26 - —
14030 Orange R, extra, conc lb. 1.64 - —
14645 Chrome black T lb. .77 - —
14720 Rubine XX, conc lb. 1.59 - —
15510 Orange Y, extra conc. lb. .83 - —
15575 Orange RR lb. .99 - —
15620 Fast Red A, conc lb. 1.61 - —
15705 Chrome blue black R, conc. lb. 1.12 - —
16150 Scarlet 2RL lb. 1.22 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No

16255	Brilliant scarlet 3RN, conc.	lb.	1.26	—
16230	Fast light, orange 2G	lb.	1.39	—
17590	Brown PG	lb.	3.00	—
18050	Phloxine 2G	lb.	1.05	—
18055	Fuchsine 6B	lb.	1.55	—
18965	Fast Yellow 2G	lb.	2.32	—
19140	Yellow XX	lb.	2.48	—
19555	Yellow NN, conc	lb.	3.67	—
20170	Brown Y	lb.	1.33	—
20470	Blue black, extra, conc.	lb.	1.44	—
21010	Brown RX conc	lb	1.35	—
22240	Scarlet B	lb.	2.81	—
22310	Red FC	lb.	1.57	—
22311	Brown MCW	lb.	1.47	—
22590	Diazo black BHD	lb.	.93	—
22610	Blue 2B extra conc.	lb	1.53	—
23500	Red, 4BX conc	lb.	1.80	—
24410	Sky blue FF extra conc	lb.	1.95	—
24395	Brilliant yellow, conc	lb.	3.27	—
26360	Navy blue 3R, conc	lb.	1.84	—
26695	Black F, conc	lb.	2.30	—
26900	Milling Red 3R conc	lb	1.91	—
27075	Neutral black 2B conc	lb	2.75	—
27720	Gray L	lb.	2.18	—
29185	Fast scarlet 4BNC	lb.	2.23	—
30015	Diazo black VJ conc	lb	2.48	—
30345	Yellow brown K extra	lb	1.26	—
30235	Black EB, 200%	lb.	1.33	—
30295	Green BY, conc	lb.	1.07	—
35660	Brown B	lb	2.89	—
37565	Naphthol SWF	lb.	1.85	—
40000	Yellow 2G	lb	1.44	—
41000	Yellow OX	lb	2.45	—
42000	Green V, crystals	lb	2.73	—
42040	Brilliant green G crystals	lb	3.62	—
42090	Blue EG	lb	1.85	—
42100	Milling green 6B conc.	lb	4.78	—
42640	Violet 4BXN	lb.	2.43	—
43830	Brilliant blue, BBG	lb.	2.44	—
44045	Blue B extra conc	lb	3.61	—
45170	Red BX	lb	4.76	—
50415	Nigrosine SSJ	lb	1.03	—
52015	Blue GXX	lb.	2.33	—
53185	Black GXCF conc.	lb	.38	—
58005	Alizarin red SC	lb.	3.64	—
59700	Golden orange GFD single paste	lb	2.70	—
59710	Flaming orange 6RD double powder	lb.	4.90	—
59800	Dark blue BO single paste	lb	2.28	—
59825	Jade green NC supra, double paste	lb	1.50	—
61570	Alizarin green CG, extra	lb.	3.81	—
63010	Alizarin blue SAPG	lb.	3.90	—
63615	Alizarin blue black B	lb.	3.26	—
69825	Blue BLFD double paste	lb	2.82	—
70800	Brown BR single paste	lb	2.03	—

Dyes, coaltar, oil-soluble, 100-lb drums dlvd No.

12140	Oil scarlet BL	lb.	1.87	—
12055	Oil orange 7078 V	lb.	1.33	—
26120	Oil red N 1700	lb.	1.94	—
42535B	Methyl violet base	lb.	1.83	—
44045B	Victoria blue base	lb	4.06	—
50415B	Oil black 8603	lb	.80	—
61565	Alizarin cyanine green base	lb	6.13	—
	Spirit black RB	lb	3.89	—
	Spirit brown GN	lb	5.30	—
	Spirit orange R conc.	lb	5.87	—
	Spirit red B conc	lb	6.41	—
Pr. 517	Spirit yellow 2R conc.	lb.	4.62	—
Pr. 554	Spirit blue THN	lb.	5.06	—

E

	Echinacea root, bls	lb.	1.25	—
	Elm bark, grinding, bls.	lb	.30	.33
	Powd., bbls., bxs	lb.	.50	.55
	Select, bundles	lb	.75	—
	Emetine hydrochloride, USP bots	oz.	48.40	—
	Endrin, tech., dms., 100-lbs. or more, 100% basis, dlvd.	lb.	2.70	—
	Eosin red toner, bbls., works	lb	1.85	—
	Ephedrine, syn., USP, anhyd., bots. 100-oz. lots	oz.	.93	1.00
	hydrous bots 100-oz. lots	oz.	.92	—
	Ephedrine hydrochloride, NF, dms., 100-oz., f.o.b. works	oz.	.72	—
	Ephedrine sulfate, USP, cryst., dms., 100-oz., f.o.b. works	oz.	.73	—
	USP, powd., dms., 100-oz., same basis	oz.	.73	—
	Epichlorohydrin, dms., c.l., dlvd	lb.	.29½	—
	dms., l.c.l. dlvd	lb.	.31	—
	tanks, dlvd.	lb.	.27	—
	Epsom salt (see Magnesium sulfate).			
	l-Epinephrine base, syn. USP, bots., 100 gram lots	gram.	.58	—
	Erigeron oil, crs.	lb.	11.00	—
	Ergot, NF, dms., tin-lined	lb.	1.00	1.25
	Eserine salicylate, bots	oz.	44.00	—
	Eserine sulfate, bots	oz.	86.00	—
	Ester gum, gum-rosin type, dms., c.l., dlvd., Ill., Md., Ky., E States, Minneapolis N. C., Ohio St Louis St. Paul, Va., W. Va	lb.	.18½	—
	Wood-rosin type, dms., c.l., same basis	lb.	.18½	—
	Ether (see specific product)			
	Ethyl acetate nat. ferment 85-88%, dms. c.l. dlvd	lb.	.15	—
	dms., t.c.l., dlvd	lb.	.16½	—
	tanks dlvd	lb.	12½	—
	95-98%, dms., c.l., dlvd	lb.	.15¼	—
	dms., t.c.l. dlvd	lb.	.16¾	—
	tanks dlvd	lb	.12¾	—
	99% dms. c.l., dlvd.	lb.	.15½	—
	dms., l.c.l. dlvd	lb.	.17	—
	tanks dlvd	lb.	.13	—
	Syn., 85-88%, dms., c.l., dlvd.	lb.	.15	—
	dms., l.c.l., dlvd	lb.	.16½	—
	tanks, dlvd	lb.	.12½	—
	95-98% dms., c.l., dlvd	lb.	.15¼	—
	dms. l.c.l. dlvd	lb.	.16¾	—
	tanks, dlvd	lb.	.12¾	—
	99%, dms. c.l., dlvd.	lb.	.15½	—
	dms., l.c.l., dlvd.	lb.	.17	—
	tanks, dlvd	lb.	.13	—
	Ethyl acetoacetate, dms., c.l., dlvd.	lb.	.58½	—
	dms., l.c.l., dlvd.	lb.	.60	—
	tanks, dlvd	lb.	.56	—
	Ethyl acrylate dms., c.l., t.l., dlvd	lb.	.36	—
	dms., l.t.l., dlvd.	lb.	.37	—
	tanks, dlvd	lb.	.34	—
	Ethyl alcohol, 190 pf., USP, tax paid dms. c.l. dlvd E of Rockies	gal.	20.63	—
	dms., l.c.l., same basis	gal.	20.68	-20.74
	Ethyl alcohol, 190 pf., USP, tax-free, dms., c.l., dlvd E of Rockies	gal.	.68	—
	dms., l.c.l. same basis	gal.	.73	.79
	tanks same basis	gal.	.52	—
	Ethyl alcohol, absolute 200 pf., tax paid, dms dlvd E of Rockies	gal.	21.75	—
	dms., l.c.l., same basis	gal.	21.80	-21.86
	tanks same basis	gal.	21.59	—
	Ethyl alcohol, denatured (see Denatured alcohol, ethyl).			

Ethyl aminobenzoate, USP (see Benzocaine).

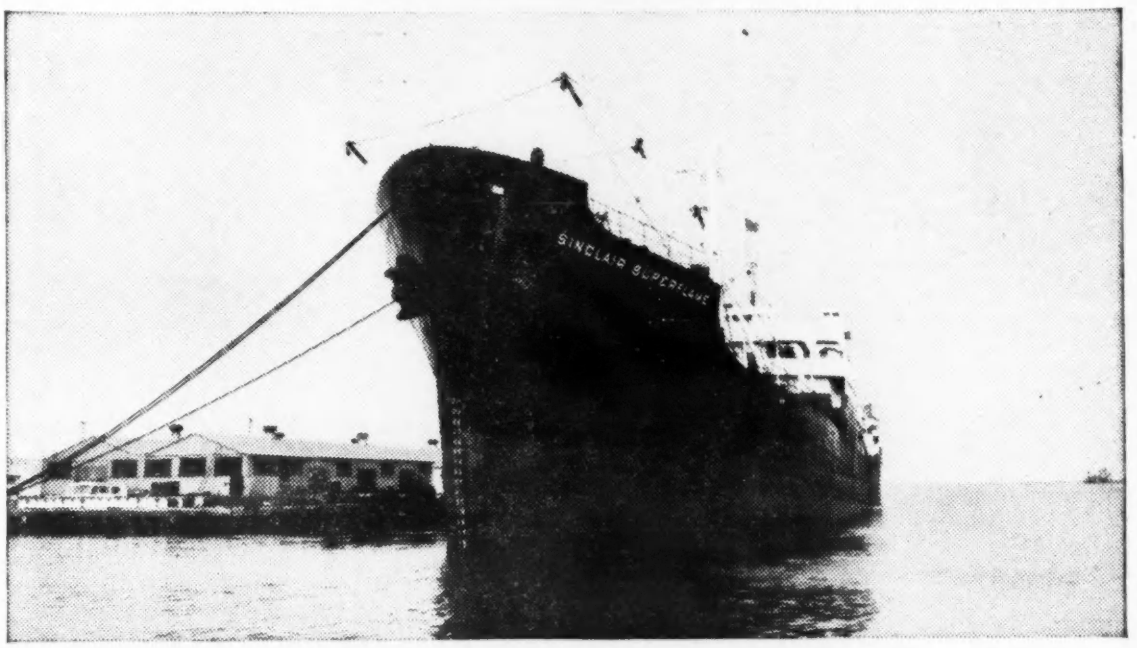
	Ethyl amyl ketone dms., c.l., dlvd.	lb.	.20	—
	dms., l.c.l., same basis	lb.	.21¼	—
	tanks, same basis	lb.	.17½	—
	Ethyl benzoate, bots	lb.	.75	1.00
	Ethyl bromide tech., 98%, dms., c.l., frt. alld. E	lb.	.43	—
	dms., l.c.l., frt. alld. E	lb.	.45	—
	tanks, frt. alld. E	lb.	.41	—
	Ethyl butyl ketone dms., c.l., t.l., works	lb.	.36	—
	dms., l.c.l., t.l., works	lb.	.36¾	—
	tanks, works	lb.	.34	—
	Ethyl butyrate, dms., works	lb.	.85	1.00
	Ethyl carbamate (see Urethane)			
	Ethyl cellulose, vis. 7 cps., bgs., 5,000 lb lots or more, frt. alld. E	lb.	.73	—
	bgs., smaller lots, frt alld E	lb.	.75	—
	Vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E	lb.	.68	—
	bgs., smaller lots, frt. alld. E.	lb.	.70	—
	Ethyl chloride, tech., cyls., works	lb.	.20	.22
	dms., works	lb.	.18	.20
	tanks, works	lb.	.10	—
	Ethyl cinnamate, cns.	lb.	3.35	3.50
	Ethyl ethanolamines, mixed, dms. c.l., dlvd E	lb.	.43½	—
	dms., l.c.l., dlvd E	lb.	.44½	—
	tanks, dlvd E	lb.	.41½	—
	Ethyl ether, absolute, ACS, dms	lb.	.27	—
	Anesthesia, USP, dealers, 1-lb. cns	lb.	1.01	—
	½-lb. cns.	lb	1.09	—
	¼-lb. cns	lb	1.21	—
	Indust., dms., c.l., dlvd.	lb.	.13½	—
	dms., l.c.l., dlvd E	lb.	.15	—
	tanks, dlvd E.	lb.	.11	—

	2-Ethyl hexoic acid dms, c.l., t.l., dlvd E	lb	.37	—
	dms., l.c.l., t.l. dlvd E	lb	.38½	—
	tanks dlvd E	lb	.34½	—
	2-Ethyl hexoic acid 1c higher W of Rockies			
	2-Ethylhexyl acrylate, c.l. or t.l., straight or mixed frt. alld E	lb	.42½	—
	dms., t.l.l., same basis	lb	.43½	—
	tanks, same basis	lb	.40	—
	Prices of 2-ethylhexyl acrylate are 1½c. per lb higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.			
	2-Ethylhexyl alcohol dms c.l. dlvd.	lb	.23¼	—
	dms. l.c.l. dlvd	lb	.25¼	—
	tanks, dlvd	lb	.21¼	—
	Ethyl iodide chys., works	lb	3.30	—
	Ethyl methacrylate dms., c.l., frt equald	lb	.52	—
	dms., t.l.l. frt. equald	lb	.52½	—
	tanks, frt. equald	lb	.50	—
	Ethyl morphine hydrochloride, USP bots	oz	11.85	—
	Ethyl oenanthate, dms	lb.	1.05	1.30
	Ethyl oxalate (see Diethyl oxalate)			
	Ethyl silicate, dist (see Tetraethyl orthosilicate)			
	Ethyl silicate, 40% available, SiO_2, dms. c.l., dlvd	lb	.44½	—
	dms., l.c.l. dlvd	lb	.46	—
	tanks, dlvd	lb	.42	—
	N-Ethyl-a-naphthylamine, dms., works	lb	1.02	—

	N-Ethyl-m-toluidine tech., liq., tanks frt. alld	lb	.83	—
	4-Ethyl-o toluidide, bbls	lb	.88	—
	Ethylenimine (see Mono- Di- or Tri-)			
	N-Ethylaniline, dms., c.l., frt. alld.	lb	.57	—
	dms., l.c.l. frt alld.	lb	.58	—
	tanks frt alld.	lb	.55	—
	Ethylbenzene 99% dms. c.l. or t.l., frt equald	lb	.15	—
	dms. l.c.l. same basis	lb	.17	—
	tanks, same basis	lb	.12½	—
	2-Ethylbutyl alcohol, dms., c.l., works	lb	.30	—
	dms. l.c.l. works	lb	.30¾	—
	tanks, works	lb.	.28	—
	Ethylene contract, ref's gate	lb	.0475	.0528
	Ethylene dibromide dms c.l., frt equald	lb	.30½	—
	dms., l.c.l. frt equald	lb	.31½	—
	tanks, frt equald	lb	.28½	—
	Ethylene dichloride dms. c.l., dlvd.	lb	.11½	—
	dms., l.c.l., same basis	lb.	.13	—
	tanks same basis	lb	.09	—
	Ethylene dichloride prices W of Rockies, 1c per lb higher			
	Ethylene glycol, indust., dms., c.l., dlvd E	lb	.16	—
	dms., l.c.l., same basis	lb.	.17½	—
	tanks, same basis	lb.	.13½	—
	Ethylene glycol monobutyl ether, dms. c.l. dlvd E	lb	.22	—
	dms., l.c.l., dlvd. E	lb	.23½	—
	tanks, dlvd E.	lb.	.19½	—

Dyes, Coaltar—Ethylene Glycol Monobutyl Ether

HOW *HERCULES* HELPS...



MOOR A TANKER—When the S.S. Sinclair Superflame was lashed by a hurricane while mooring, every line snapped during the storm's fury except one—an American Manufacturing Company's "Floterope," made from Hercules Pro-fax® polypropylene. Today, over a year later, that same polypropylene line is still in use aboard the Superflame—proof that Pro-fax rope can meet the marine industry's most demanding challenge. Whether it be for rope or automobile seat covers, household appliances or industrial uses, wherever a tough, rigid, versatile synthetic is needed, Pro-fax is setting new standards for accomplishment.

LAUNDER A SHIRT—Nothing makes a man feel better-dressed than a well-laundered shirt. That's why so many commercial laundries depend on Huron Starch to provide a truly professional job. In the field, Hercules-trained representatives back up the performance of the product by assisting laundries in finding solutions for technical problems.

IMPROVE INDUSTRIAL BLASTING
"The Man with The Red Valise," a familiar sight to those who use industrial explosives, is typical of Hercules service. In this kit is the complete line of Hercules blasting caps in dummy form. Using this display, the Hercules representative can familiarize the customer with the complete range of Hercules blasting devices that are available to fit various requirements.

HERCULES POWDER COMPANY
INCORPORATED
900 Market Street, Wilmington 99, Delaware

CHEMICAL MATERIALS FOR INDUSTRY

HERCULES

960-2

Ethylene Glycol Monoethyl Ether—Glycolonitrile

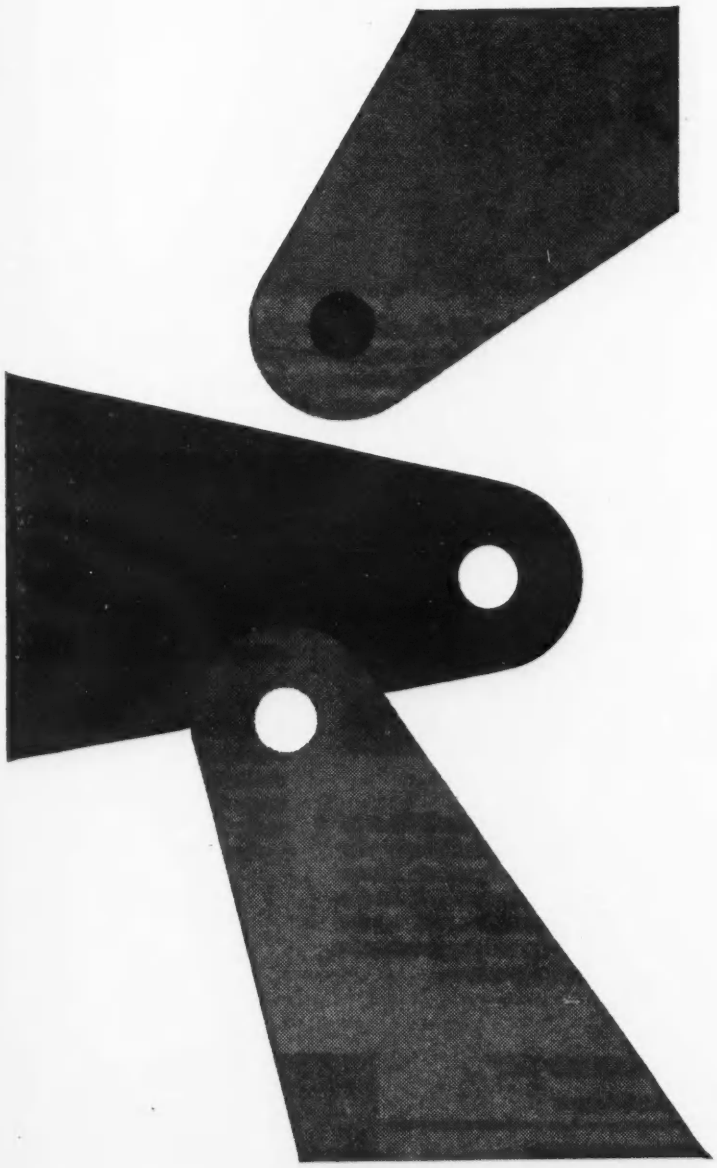
Ethylene glycol monoethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E ..... lb. .22½- —
tanks dlvd E ..... lb. .18½- —
Ethylene glycol monoethyl ether acetate dms., c.l. dlvd. E lb. .19½- —
dms., l.c.l., dlvd E. ..... lb. .20½- —
tanks dlvd. E ..... lb. .17 - —
Ethylene glycol monomethyl ether, dms. c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E ..... lb. .22½- —
tanks dlvd E ..... lb. .18½- —
Ethylene glycol monomethyl ether acetate dms., c.l., dlvd. E lb. .29 - —
dms., l.c.l., dlvd. E. ..... lb. .29¾- —
tanks dlvd E. ..... lb. .27 - —
Ethylene glycol monostearate, triple pressed, dms lb. .33 - .35
Ethylene oxide, dms. c.l., dlvd E. lb. .21½- —
dms., l.c.l., dlvd E. ..... lb. .24½- —
tanks dlvd E. ..... lb. .15½- —
Ethylene trichloride (see Trichloroethylene)
Ethylenediamine, 85-88%, dms., c.l., dlvd E., 100% basis lb. .42 - —
dms. l.c.l. dlvd E., 100% basis. lb. .43 - —
tanks, dlvd. E., 100% basis lb. .40 - —
Ethylvanillin, 100-lb. fib dms., 500-lb. lots and over lb 6.75 - —
200-lb. lots and over ..... lb. 7.00 - —
100-lb. lots and smaller..... lb. 7.30 - 7.40
Eucalyptol, USP, cns., dms ..... lb. .85 - 1.40
Eucalyptus oil, NF rectified, 70-75%, dms. lb. .50 - .58
NF, rectified, 80-85%, dms. ..... lb. .58 - .85
Eugenol, tech., dms. ..... lb 1.45 - —
USP, dms. ..... lb. 2.10 - 2.80
Euphorbia herb, bls. ..... lb. .12 - .15

F

F salt, paste, tech., dms., works lb. 2.30 - —
Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 - —
Feldspar in bags $3 per ton. higher
Fennel oil, sweet, USP, cns. ..... lb. 2.25 - 2.70
Fennel seed, Argentine, bgs. ..... lb. .14 - —
French light bgs ..... lb. .20 - —
Indian, light, bgs. ..... lb. .17 - —
Rumanian bgs. ..... lb. .14 - —
Yugoslav, light, bgs ..... lb. .16½- —
Fenugreek seed, Moroccan, bgs lb. .07½- —
Ferric chloride, anhyd., tech., dms., c.l., works 100 lbs. 7.50 - —
dms l.c.l., works ... 100 lbs. 8.50 - —
Indust., cryst., bbls., c.l., works. 100 lbs. 5.25 - 6.75
Ferric chloride, indust., cryst., bbls. l.c.l., works 100 lbs. 5.75 - 7.25
42°Be., photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald. 100% basis 100 lbs. 4.00 - —
USP, cryst., dms., t.l., works lb. .08½- —
Ferric citrate, gran., dms. ..... lb. .86 - —
Ferric hypophosphite, NF, dms lb. 3.45 - —
Ferric naphthenate, liq., 6% Fe, dms., frt. alld lb. .58¼- —
Ferric oxalate, tech., gran., 50-lb. dm. f.o.b. works E lb. .89 - —
Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble, gran. pearls, cs lb. .72 - .75
Ferric pyrophosphate, NF VII, soluble, gran., pearls, dms. lb. .70 - —
Ferric resinate 6¾% Fe., dms., ton lots, frt. alld lb. .40¼- —
Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld. ..... lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l. works ton.35.25 - —
bgs., l.c.l., works ..... ton.36.25 -42.25
bulk, c.l., works ..... ton.33.25 - —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms lb. .65 - .68
Green, pearls, USP XII, gran., dms lb. .66 - .69
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms lb. .32½- .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29½
Ferrous gluconate, USP, 200-lb. dm., frt. equald lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works ton.34.50 - —
bgs., l.c.l., dlvd. Metropolitan area, 100 lbs 3.35 - 4.25
bbls., c.l., works ..... ton.40.00 - —
bulk, c.l., works ..... ton.27.00 - —
USP, cryst., bbls., dms. ..... lb 09½- .10
Fir balsam, Canada, bbls. ..... gal.32.00 -35.00
Oregon, bbls. ..... gal. 3.40 - 4.64
Fir oil, Canada, ens ..... lb. 1.75 - 2.50
Fish oil, refd., alkali, dms..... lb. .1300- .1350
Kettle-bodied, dms. ..... lb. .1530- .1580
Light-pressed, dms. ..... lb. .1150- .1200
tanks ..... lb. .10 - —
Fishliver oil, nat., high potency, 100,000 to 1,500,000 A units per gram, dms. 1,000,000 units.. .12 - —
Fishmeal, dom., menhaden, 60% protein grd., bgs., Atlantic and Gulf coasts ton.100.00 - —
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic and Gulf coasts ton.96.00 - —
Fleaseed (see Psyllium seed).
Folic acid, USP, bots., fib. dms., kilo lots or more gram. .30 - .44
10% feed grade, fib. dms., 3 kilos or more kilo.30.00 -44.00
37% (inhibited 12 to 15% methanol), USP, dms., c.l., dlvd. lb. .0695- —
tanks, dlvd. ..... lb. .0405- —
Formaldehyde, 37% (inhibited 12 to 15% methanol), USP, dms., c.l., dlvd lb. .0695- —
tanks, dlvd. ..... lb. .0430- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd lb. .0375- —
Formic acid, 85%, cbys., c.l., works. lb. .1570- —
cbys., l.c.l., works ..... lb. .1620- .1720
90%, cbys., c.l., works..... lb. .1625- —
cbys., l.c.l., works ..... lb. .1675- .1775
Fringetree bark, bls. ..... lb. .65 - .70
Fumaric acid, tech., 250-lb. dms., c.l., frt. equald lb. .22¾- —
dms., l.c.l., frt. equald. ..... lb. .24¼- —
Furfural, dms., c.l., works ..... lb. .13 - —
dms., l.c.l., works ..... lb. .14 - —
tanks, dlvd. E. ..... lb. .12 - —
tanks, dlvd. W ..... lb. .13 - —
Furfuryl alcohol, cns., works.... lb. .28 - —
dms., c.l., t.l., Newark, N. J.... lb. .20½- —
dms., l.c.l., t.t.l., Newark, N. J. lb. .21½- —
dms., c.l., t.l., Memphis, Tenn. lb. .19 - —
dms., l.c.l., t.t.l., Memphis, Tenn. lb. .20 - —
tanks, Memphis, Tenn..... lb. .175 - —
Fusel oil, refd., dms., c.l., dlvd lb. .18 - —
dms., l.c.l., dlvd..... lb. .19½- —
tanks, dlvd. ..... lb. .15½- —

G

G salt, bbls. frt. alld., 100% basis lb. .73 - —
Gallic acid, NF VII, bbls. 1,000-lb. lots lb 2.00 - —
bbls., smaller lots..... lb 2.02 - 2.22
Tech., bbls., 1,000-lb. lots... lb. 1.78 - —
bbls., smaller lots ..... lb. 1.80 - 2.00
Gamma acid, dry grd., bbls., frt. alld lb. 1.75 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. ..... oz. 4.75 - 6.05
Imp. bots. ..... oz. 4.50 - 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible, 75 AOAC test, bbls., c.l., dlvd lb. .55 - —
150 AOAC test, bbls., c.l., dlvd. lb. .64 - —
200 AOAC test, bbls., c.l., dlvd. lb. .70 - —
225 AOAC test, bbls., c.l., dlvd. lb. .74 - —
275 AOAC test, bbls., c.l., dlvd. lb. .82 - —
Gelsemium root, bls. ..... lb. .30 - .35
Gentian root, bls. ..... lb. .24 - —
Grd., bbls., bxs ..... lb. .30 - —
Powd., bbls. bxs ..... lb. .30 - —
Geraniol, extra, cns., dms..... lb. 2.00 - 2.50
Soap grade, dms ..... lb. 1.05 - 1.25
Standard, cns., dms ..... lb. 1.75 - 2.25
Geranium oil, Algerian, ens.... lb.19.00 - —
Bourbon, cns. ..... lb.23.00 -26.00
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns. ..... lb. 1.90 - 2.70
Ginger oil, dist., bots. ..... lb.11.50 -14.00
Ginger oleoresin, NF from African root, bots lb. 4.25 - 5.00
NF, from Jamaican root, bots. lb. 7.75 - —
Ginger root, Cochin, bgs..... lb. .25 - —
Jamaican, No. 3, bgs..... lb. .30 - —
Nigerian, split, bgs..... lb. .15 - —
Sierra Leone, bgs..... lb. .21 - —
Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50% dms., c.l., t.l., frt. alld lb. .18 - —
dms. l.c.l., frt. alld. .... lb. .20½- —
tanks, frt. alld. ..... lb. .13½- —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs. c.l., dlvd. lb. .36 - —
131 jellygrams, bgs., c.l., same basis lb. .16½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
191 jellygrams, bgs., c.l., same basis lb. .19½- —
222 jellygrams, bgs., c.l., same basis lb. .21 - —
Glue, bone, green, 40 jellygrams, bgs., c.l., same basis lb. .16- —
86 jellygrams, bgs., c.l., same basis lb. .16 - —
115 jellygrams, bgs., c.l., same basis lb. .16½- —
135 jellygrams, bgs., c.l., same basis lb. .17½- —
164 jellygrams, bgs., c.l., same basis lb. .18½- —
180 jellygrams, bgs., c.l., same basis lb. .19½- —
200 jellygrams, bgs., c.l., same basis lb. .20½- —
Bone glue, l.c.l., prices 2c. higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-149, bgs., c.l., dlvd..... lb. .19 - —
122-149, bgs., c.l., dlvd..... lb. .20½- —
150-177, bgs., c.l., dlvd ..... lb. .22½- —
178-206, bgs., c.l., dlvd. .... lb. .25 - —
207-236, bgs., c.l., dlvd ..... lb. .28 - —
237-266, bgs., c.l., dlvd..... lb. .30½- —
267-298, bgs., c.l., dlvd..... lb. .32½- —
299-330, bgs., c.l., dlvd..... lb. .34½- —
331-362, bgs., c.l., dlvd..... lb. .36½- —
363-394, bgs., c.l., dlvd..... lb. .38 - —
395-427, bgs., c.l., dlvd..... lb. .40 - —
428-460, bgs., c.l., dlvd..... lb. .42 - —
461-494, bgs., c.l., dlvd..... lb. .44 - —
495-529, bgs., c.l., dlvd..... lb. .46 - —
Hide glue, l.c.l. prices 2c higher.
l-Glutamic acid, 99½% fib. dms., 100-lb lots, frt. alld lb. 1.80 - —
fib. dms., 25-lb. lots, frt. alld. lb. 1.88 - —
l-Glutamine, bots., 1-9 kilo lots, kilo.150.00 -300.00
Bots., 50-kilo lots..... kilo.100.00 - —
Bots., 500-kilo lots..... kilo.75.00 - —
Glycerine, dom., nat., crude, saponification, 88%, tanks, dlvd lb. .21½- .21¾
nat. crude, soaplye 80% tanks, dlvd lb. .19 - .19¾
nat., refd., USP, CP, 99%, dms., c.l., dlvd in. .30⅞- —
dms., l.c.l., dlvd..... lb. .31⅝- —
tanks, dlvd. ..... lb. .29½- —
nat., refd., USP, CP, 96%, dms., c.l., dlvd lb. .30 - —
dms., l.c.l., dlvd..... lb. .30¾- —
tanks, dlvd. ..... lb. .28¼- —
nat., high gravity, dms., c.l., dlvd. lb. .30¾- —
dms., l.c.l., dlvd..... lb. .31½- —
tanks, dlvd. ..... lb. .29 - —
syn., dms., c.l., dlvd..... lb. .31 - —
dms., l.c.l., dlvd ..... lb. .31¾- —
tanks, dlvd. ..... lb. .29¼- —
Imp. nat., crude, soaplye, 80%, c.i.f. lb. .19 Nom.
Glycine (see Aminoacetic acid)
Glycerol (see Glycerine)
Glycolic acid (see Hydroxyacetic acid).
Glycolonitrile, 70% aqueous, dms., c.l., t.l., works lb. .40 - —
dms., l.c.l., same basis..... lb. .42 - —
tanks, same basis ..... lb. .39 - —



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- it is better tolerated
- it has no typical "iron" taste, even in the uncoated tablet
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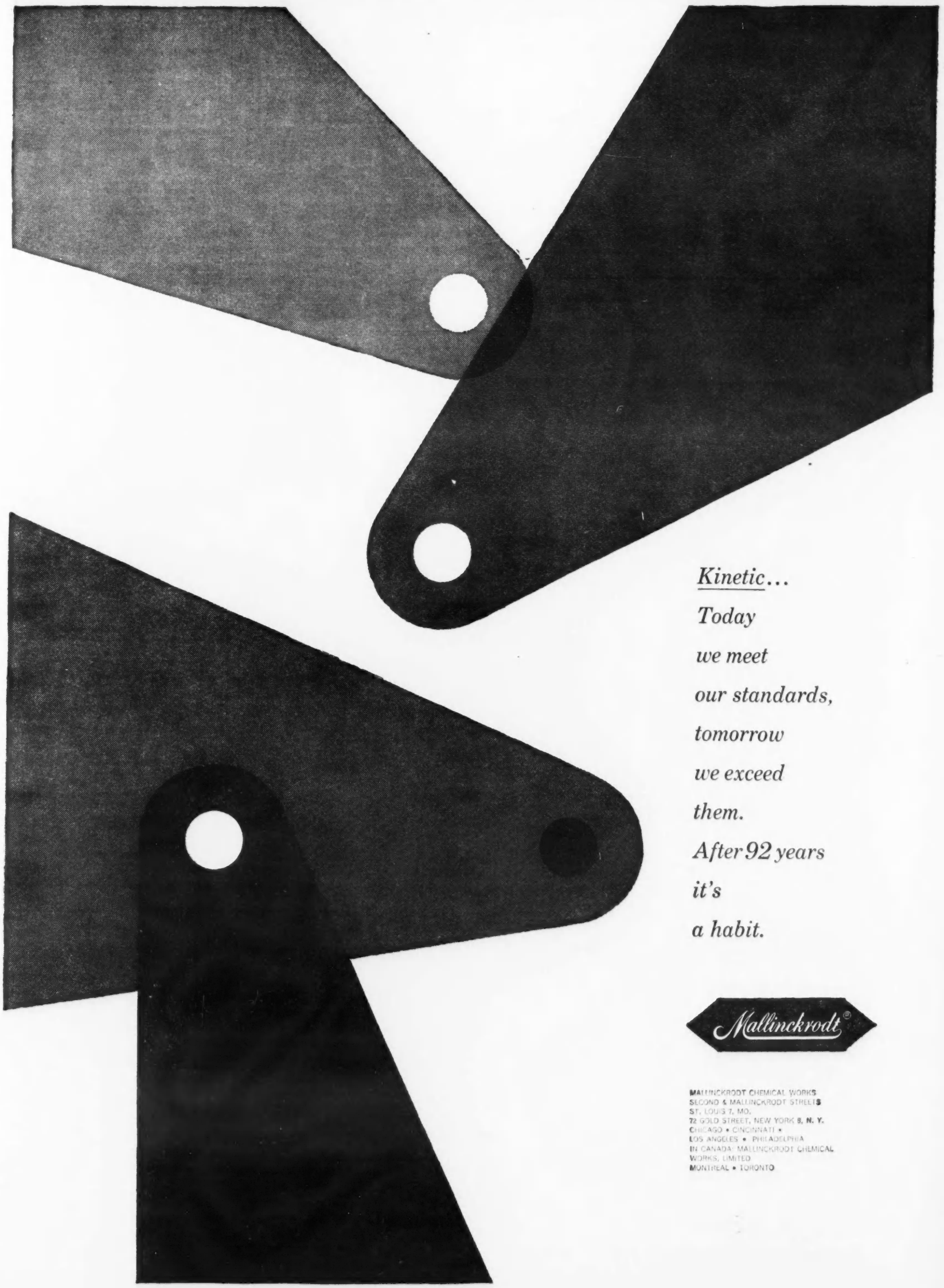

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MONTREAL • TORONTO

Glyoxal, 30%, dms., c.l., works	lb.	.20½	—
dms. l.c.l. works	lb.	.21½	—
tanks works	lb.	.18	—
Golden seal root, NF, tested, blg.	lb.	2.75	3.25
Gramicidin 1 to 5 kilos, f.o.b. works.	gram	4.70	—
Grapefruit oil, dms.	lb.	2.25	2.70
Graphite, amorp, powd., bgs., fib. dms., ex whse	lb.	.06	.09½
Cryst., 88-90%, powd., bgs., fib. dms ex whse	lb.	.19	.21½
90-92%, powd., bgs., fib. dms., ex whse	lb.	.21	.24½
95-97%, powd., bgs., fib. dms., ex-whse	lb.	.29	.31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse	lb.	.29	.31
No. 2, 90-95%, bgs., fib. dms., ex whse	lb.	.29	.31
Grease, white, choice all hog, tanks, dlvd.	lb.	.06¾	—
Yellow, tanks, dlvd.	lb.	.05½	—
Grease oil, No. 1, dms., c.l.	lb.	.13¾	Nom.
dms., l.c.l.	lb.	.14¾	Nom.
Extra winter, strained, dms. c.l.	lb.	.16¼	Nom.
dms., l.c.l.		.17¼	Nom.
Prime, burning, dms., c.l.	lb.	.17¾	Nom.
dms., l.c.l.	lb.	.18¾	Nom.

GREEN PIGMENTS

Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green.

Grindelia robusta herb, bls.	lb.	.40	—
Guaiacol, NF, cryst., dms., tins	lb.	2.10	2.15
NF, liq., cbys., dms.	lb.	2.30	2.40
Guaiacol carbonate, NF VII, dms.	lb.	3.40	3.45
Guaiacwood oil, cns.	lb.	.75	1.30
Guar gum, food grade bgs., c.l.	lb.	.38	—
bgs., 5,000 lbs. or more	lb.	.39	—
Indust., bgs., c.l.	lb.	.32	—
Tech. grade, bgs.	lb.	.30	.33

GUMS

Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum.

Gypsum, plaster of Paris, 100-lb. paper bgs., trucks, dlvd. New York	ton.	20.30	—
Terra alba, dom., 100-lb. paper bgs., trucks, same basis	ton.	20.00	—
100-lb. paper bgs., trucks, works, New York	ton.	17.00	—
Terra alba, imp., English, 100-lb. paper bgs., l.c.l., ex dock, New York	ton.	55.00	—
100-lb paper bgs., ex whse.	ton.	60.00	62.00

H

H acid, dry, bbls., c.l., frt. alld., 100% basis	lb.	.90	—
bbls., l.c.l., same basis	lb.	.95	—
Hansa yellow, 10 G, bbls., dlvd. E. of Rockies	lb.	2.45	—
Hansa G yellow, pigment, bbls	lb.	2.20	—
Hawthorn berries, bgs.	lb.	.18	.20
Heliotropin, 100-lb. lots, dms.	lb.	2.60	3.40
Hellebore root, dom. green, bls	lb.	.70	.75
Helonias root, bls.	lb.	1.50	—
Hemlock oil, cns.	lb.	2.55	3.00
Henbane leaves, bls.	lb.	.35	.40
Heptachlor, dms., c.l., t.l., frt. alld., 100% basis	lb.	.96	—
Heptane, industrial, tankcars, New Jersey and New York	gal.	.20	—
Houston, Texas	gal.	.1625	—
Hesperidin, purif., 100-lb. fib. dms., f.o.b., works	lb	8.95	—
Hesperidin methylchalcone, bots., 50-lb. lots, works	lb.	22.50	—
bots., 5-lb lots, works	lb.	23.00	—
bots., 1-lb lots, works	lb.	23.50	—
Hexachloropnene, dms., 1,100 lbs., or more	lb.	1.84	—
dms., to 1,100 lbs.	lb.	1.94	—
Hexalin (see Cyclohexanol).			
Hexamethylenetetramine, tech. bgs., 20,000-lb. lots or more, Perth Amboy or New York City	lb.	.233	—
bgs., 1,000-19,999-lb. lots, same basis	lb.	.243	—
bgs. smaller lots same basis	lb.	.253	—
fib. dms., 1,000-lb. lots or more, same basis	lb.	.250	—
fib. dms., smaller lots, same basis	lb.	.253	—
USP, bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York City and Philadelphia	lb.	.42½	—
bgs., smaller lots, same basis	lb.	.43½	.48½

Hexane, industrial, tankcars, New Jersey and New York	gal.	.20	—
Houston, Texas	gal.	.16	—
1-Hexanol, dms., c.l., works	lb.	.35	—
dms., l.c.l. works	lb.	.35¾	—
tanks, works	lb.	.33	—
Hexyl cinnamic aldehyde, dms	lb.	4.60	7.50
n-Hexyl methacrylate, dms., c.l., works	lb.	.75½	—
dms. l.c.l. works	lb.	.76	—
Hexyl salicylate dms.	lb.	4.75	—
Hexylene glycol, dms., c.l., dlvd	lb.	.17½	—
dms., l.c.l. dlvd	lb.	.18	—
tanks, dlvd.	lb	15	—
Hexylresorcinol, USP dms., 25-lb. lots or more, dlvd	lb.	14.00	—
dms., smaller lots dlvd.	lb.	14.50	—
Homatropine hydrobromide, USP bots oz.		3.25	—
Homatropine methylbromide, USP. bots oz.		3.25	—
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton		6.75	—
Horehound herb, bls.	lb.	.18	.20
Hydrastis (see Goldenseal)			
Hydrazine hydrate 85% ret. dms., works	lb.	1.35	1.55
100% ret dms. works	lb	1.60	1.90
Hydriodic acid, purif., 47%, 2-cbys., f.o.b. works	lb.	2.92	—
Hydroabietyl alcohol, tech., solid, dms. c.l., dlvd. zone 1	lb.	29¼	—
dms. l.c.l. dlvd zone 1	lb.	29¾	.30¼
tanks dlvd zone 1	lb	27¼	—

Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.

Hydrobromic acid, medicinal, 48%, cbys. frt. equald	lb.	.48	.56
Hydrochloric acid, anhyd. (see Hydrogen chloride)			
Hydrochloric acid 18° cbys., c.l., works 100 lbs.		2.50	—
cbys. l.c.l. dlvd Metropolitan area 100 lbs		2.90	3.05
tanks works frt equald	ton	28.00	—
20°, cbys., c.l., works 100 lbs.		2.75	—
cbys. l.c.l. dlvd Metropolitan area 100 lbs		3.15	—
tanks, works frt equald	ton	30.00	—
22°, cbys., c.l., works 100 lbs.		3.25	—
cbys. l.c.l. dlvd Metropolitan area 100 lbs		3.65	—
tanks works frt equald	ton	35.00	—
CP, USP, consumers cbys., extra, c.l., works	lb.	15¾	—
cbys. l.c.l. same basis	lb.	17¼	.17¾
Hydrochloric acid, 5-pint bots., extra cs. c.l., same basis	lb.	.20¾	—
Hydrocortisone acetate bulk bots., kilo lots or more	gram.	1.10	1.90
Hydrocortisone alcohol bulk bots., kilo lots or more	gram.	1.10	1.90
Hydrocyanic acid dilute, NF, 2%, 5-pt. bots., f.o.b. works	pt.	.70	—
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)			
Hydrofluoric acid, aqueous, 70%, 55-gal. or 30-gal. dms., c.l., t.l., dlvd. 100 lbs.		19.25	—
55-gal. dms., l.c.l., l.t.l., dlvd 100 lbs.		20.75	—
20-gal. dms., c.l., t.l., dlvd 100 lbs.		21.00	—
20-gal. dms., l.c.l., l.t.l., dlvd 100 lbs.		22.50	—
tanks, works, frt. equald. 100 lbs.		13.40	—

Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming. In those states add $2.70 per cwt. for drum delivery.

Hydrofluosilicic acid, dms., works, 30% basis	lb.	.06	—
Hydrofuramide, dms. fib. ctns., works	lb.	.30	.40
50-lb. cyls., l.c.l., works	lb.	.55	.60
Hydrogen chloride, anhyd., 50-lb. cyls., l.c.l., works	lb.	.45	—
Hydrogen cyanide, liq., 98%, tanks, works	lb.	.14	—
Hydrogen fluoride, anhyd., cyls., dlvd. E	lb.	.30½	.32½
cyls. dlvd. W.	lb.	.39	—
tanks, works	lb.	.18	—
Hydrogen peroxide 35%, dms., c.l., dlvd	lb.	.202	—
dms., l.c.l., dlvd.	lb.	.211	—
tanks, dlvd.	lb.	.1800	—
Hydroquinone, photo grade, dms., 50-lbs., f.o.b. works	lb.	1.10	—
Tech., dms., c.l., dlvd.	lb.	.82½	—
dms. l.c.l. dlvd	lb.	.84½	—
Hydroquinone monomethyl ether, dms., t.l., dlvd.	lb.	2.59	—
dms., l.t.l., dlvd.	lb.	2.61	—
Hydroxyacetic acid, tech., 70%, dms. Philadelphia and Chicago	lb.	.11	—
tanks, Belle, W. Va.	lb.	.073	—
Hydroxycitronellol, cns.	lb.	4.85	5.75
Hydroxyethyl cellulose, low viscosity grades, fib. dms., 20,000-lb. lots or more, f.o.b. shipping point.	lb.	.96	—
fib. dms., 2,000 to 19,999-lb. lots, same basis	lb.	.99	—
fib. dms., 150 to 1,999-lb. lots, same basis	lb.	1.02	—
fib. dms., less than 150-lb. lots, same basis	lb.	1.12	—
Hydroxyethyl cellulose high viscosity grades, fib. dms., 20,000-lb. lots or more, f.o.b. shipping point	lb.	1.01	—
fib. dms., 2,000 to 19,999-lb. lots, same basis	lb.	1.04	—
fib., dms., 85 to 1,999-lb. lots, same basis	lb.	1.07	—
fib. dms., less than 85-lb. lots same basis	lb.	1.17	—
Hyoscine salts (see Scopolamine)			
Hyoscyamine hydrobromide, bots	oz.	7.00	—
Hyoscyamine sulfate, bots.	oz.	7.00	—
Hypophosphorous acid, purif., 50%, 10-cbys., f.o.b. works	lb.	1.95	—
NF, 50%, 10-cbys., same basis	lb.	1.35	—

I

Ichthammol, NF, dms.	lb.	.75	1.05
Indigo (see Dyes coaltar, 1171 indigo, syn).			
Indole, CP, bots.	lb.	14.75	18.25
Inositol, bots., dlvd.	lb	5.00	—
dms., dlvd.	lb	4.50	4.75
Insect flowers (see Pyrethrum).			
Iodine, crude, kgs.	lb.	.95	—
Resub., USP, dms., f.o.b. works	lb.	2.00	2.02
Iodochlorohydroquinolin, USP, dms.	lb	3.60	—
Iodoform, NF, dms., 300-lbs., f.o.b. works	lb.	4.90	—
dms., 100-lbs., same basis	lb.	5.05	—
a-Ionone, cns.	lb.	4.60	5.75
b-Ionone, cns.	lb.	4.15	6.15

Hydrobromic Acid

HBr

48%

62%

HBr

Can help you make drugs, dyes, fluxes, perfumes, photo chemicals

Check these useful reactions: Hydrobromic acid is a strong acid which reacts readily with most inorganic bases to produce inorganic bromides such as lithium, sodium, potassium and ammonium bromide, useful in photographic processes.

It reacts with many aliphatic alcohols in the presence of dehydrating agents to produce aliphatic bromides. Aliphatic bromides, which are generally more reactive than the corresponding chlorides, are useful in the preparation of Grignard reagents and other organometallic bromides, quaternary ammonium salts and as alkylating agents.

Hydrobromic acid can be used to cleave ethers to produce aliphatic alcohol and bromide. It will also react with epoxides to produce vicinal bromohydrins with two reactive centers, thus, permitting many additional reactive possibilities.

Ask for our help: Michigan Chemical produces 48% Technical Grade Hydrobromic Acid and is the sole producer of 62% Technical Grade Hydrobromic Acid in commercial quantities. Our wide experience in bromine and bromine derivatives is immediately available to you through our Technical Service Group. Our plants in Saint Louis, Michigan and El Dorado, Arkansas provide dependable sources for high purity bromine chemicals in constant supply—up to tank car quantities, if desired. Write us about your area of interest or for technical data and prices.

Analysis:	48% Technical
Molecular Weight:	80.924
Specific Gravity at 20/4° C:	1.488
Pounds a gallon at 20° C:	12.4
HCl, not more than:	0.10%
Vapor Pressure at 30° C:	——
Vapor Pressure at 50° C:	——

Analysis:	62% Technical
Molecular Weight:	80.924
Specific Gravity at 20/4° C:	1.74
Pounds a gallon at 20° C:	14.5
HCl, not more than:	0.15%
Vapor Pressure at 30° C:	85 mm
Vapor Pressure at 50° C:	380 mm

For complete listing of Michigan Chemical products, see your copy of Chemical Materials Catalog or Chemical Week Buyers Guide.

MICHIGAN CHEMICAL CORPORATION

630 North Bankson Street, Saint Louis, Michigan

EASTERN SALES OFFICE: 230 Park Avenue, New York 17, N.Y.

C-58-9

Ipecac root, whole, bgs ..... lb 8.00 - 8.50
Powd., bbls., bxs. ..... lb 9.50 -10.00
Irish moss, bleached, prime, bls. lb. .20 - .23
Iron blue, alkali-resisting, bbls., c.l., dlvd. E lb. .57 - —
bbls. l.c.l. ton lots same basis. lb. .53 - —
bbls., smaller lots same basis lb. .54 - —
Dom., reg., bbls., c.l., dlvd. E lb. .52 - —
bbls., l.c.l., ton lots, same basis lb. .53 - —
bbls., l.c.l., smaller lots, same basis lb. .54 - —
Imp., British, reg., bbls., c.l., dlvd. E. lb. .43 - —
bbls., l.c.l., ton lots same basis lb. .49 - —
bbls., l.c.l., smaller lots, same basis lb. .50 - —
Iron blue dlvd. prices 1c. higher for Pacific Coast states:—Wash., Ore., Cal., N. M., Ariz. Mon. Wyo. Utah, Col and Nev.
Iron compounds (see Ferric or Ferrous)
Iron oxide, black, pure, bgs., c.l., works lb. .14¾- —
bgs., l.c.l., works ..... lb. .15 - —
Iron oxide, brown, pure bgs., c.l., works lb. .14¾- —
bgs., l.c.l., works ..... lb. .14½- —
Iron oxide, metallic brown, bgs., works lb. .05¼- —
Iron oxide Persian Gulf, red, bgs., c.l. works lb. .08¾- —
Iron oxide, red, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, New York City lb. .14¼- —
Iron oxide red nat. 75-85% ferric oxide, bgs. c.l. works lb. .06¼- —
bgs. l.c.l., works lb. .06½- —
Iron oxide Spanish red bbls., c.l., ex dock lb. .05¾ Nom.
bbls. l.c.l. ex dock lb. .06 Nom.
bbls. l.c.l. ex whse New York. lb. .06½ Nom.
Iron oxide, yellow, nat., French type, bgs. c.l., works lb. .06¼- —
Peruvian type bgs. l.c.l lb. .023 - .024
Iron oxide, yellow, pure, light lemon shade bgs. c.l. works lb. .12¼- —
Other shades same basis lb. .12 - —
Isoamyl alcohol dms. c.l. works, frt alld E lb. .27½- —
dms., l.c.l. same basis ..... lb. .29 - —
tanks same basis ..... lb. .25 - —
Isoborneol cns. ..... lb. 1.44 - 1.80
Isobornyl acetate, cns. ..... lb. .46 - .56
Isobornyl formate dms. ..... lb. 1.20 - —
Isobornyl proprionate dms. ..... lb. 1.25 - 1.35
Isobutyl acetate perfume grade, cns lb. .35 - —
Isobutyl acetate solvent grade, dms., c.l., dlvd. E. of Rockies lb. .15¼- —
dms. l.c.l. same basis ..... lb. .16¼- —
tanks same basis ..... lb. .12¾- —
Isobutyl alcohol dms. c.l., dlvd. lb. .15½- —
dms., l.c.l., dlvd. ..... lb. .17 - —
tanks, dlvd. ..... lb. .13 - —
Isobutylene, 99%, tanks, works gal. .38 - —
Isobutyl isobutyrate, dms., f.o.b. works lb. .75 - —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½- —
dms. l.c.l. dlvd ..... lb. .28½- —
Tech., dms., c.l., dlvd ..... lb. .22 - —
dms., l.c.l., dlvd. ..... lb. .23 - —
tanks, dlvd. ..... lb. .19½- —
Isobutyronitrile, dms., c.l., dlvd lb. .52 - —
dms., l.c.l., same basis ..... lb. .57 - —
Isobutyric acid, dms., c.l., t.l., dlvd. lb. .35 - —
dms., l.c.l., t.l., same basis ... lb. .36½- —
t.c., t.l., same basis ..... lb. .33 - —
Isoeugenol, cns. ..... lb. 3.40 - 4.25
Isoniazid, powd., bulk, kilo or more kilo 18.00 - —
Isonicotinic acid, 100-lb fib dms., works lb. 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid).
Iso-octyl alcohol, dms., c.l., dlvd E. lb. .23½- —
dms., l.c.l., dlvd. E ..... lb. .25 - —
tanks, dlvd. E. ..... lb. .21 - —
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .15½- —
Isophorone, dms., c.l., works ... lb. .24½- —
dms., l.c.l., works ..... lb. .25½- —
tanks, works. ..... lb. .22½- —
Isophthalic acid, dms., c.l., works, frt. equald. lb. .16 - —
dms., l.c.l., same basis ..... lb. .17 - —
Isopropanol (see Isopropyl alcohol).
Isopropyl acetate, dms., c.l., dlvd. lb. .14 - —
dms, l.c.l., same basis..... lb. .15½- —
tanks, same basis ..... lb. .11½- —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 - —
dms., l.c.l., dlvd ..... gal. .68 - —
tanks, dlvd. ..... gal. .42 - —
95% c.l., dms., dlvd..... gal. .60 - —
dms., l.c.l., dlvd..... gal. .70 - —
tanks, dlvd ..... gal. .44 - —
anhyd., c.l., dlvd. ..... gal. .62 - —
dms., l.c.l., dlvd ..... gal. .72 - —
tanks, dlvd. ..... gal. .46 - —
Isopropyl benzene (see Cumene).
Isopropyl ether, dms., c.l., dlvd lb. .09½- —
dms., l.c.l., dlvd ..... lb. .11 - —
tanks, dlvd ..... lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC), tech., dms., c.l., t.l., works lb. 1.00 - —
dms., l.c.l., works ..... lb. 1.05 - 1.25
tanks, works. ..... lb. .99 - —
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb fib dms., c.l., t.l., works lb. .75 - —
450-lb fib. dms., l.c.l., works... lb. .80 - .90
Isoquinoline, dms., works..... lb. .65 - 1.25
Itaconic acid, refd., bgs. c.l., f.o.b. works lb. .53½- —
bgs., l.c.l., same basis ..... lb. .54½- —
Tech., bgs., c.l., same basis. lb. .38½- —
bgs., l.c.l., same basis..... lb. .39½- —

J

J acid, paste, bbls., works, 100% basis lb. 2.70 - —
Powd. bbls. same basis..... lb. 2.75 - —
Jalap root, NF, bls. ..... lb. .60 - —
NF, powd., bbls., bxs. ..... lb. .70 - .75
Japan wax, cs ..... lb. .27 - .29
Juniper berries, bgs..... lb. .16 - .17
Juniper berry oil, NF, bots..... lb. 2.90 - 3.75
Twice rectified bots. ..... lb. 3.25 - —
Juniper tar oil NF dms ..... lb. .42 - .60
Juniper wood oil, tech., cns. .... lb. .38 - .55

K

Kaolin (see also Clay, China).
Kaolin, NF, powd., fib. dms. .... lb. .10 - .12
NF, colloidal, 50-lb. bgs..... lb. .15½- .17½
Karaya gum No. 1, NF powd. bls. lb. .45 - .48
No. 2, powd., bbls. ..... lb. .40 - .42
No. 3, powd. bbls. ..... lb. .35 - .37
Kieselguhr, bbls., frt. alld., 100% basis lb. 1.00 - —
Kola nuts, bgs. ..... lb. .13 - .15

L

L acid, bbls. works ..... lb. 1.25 - —
Lacquer diluent, petroleum, 140°F-200°F b.r., tankcars, New Jersey and New York gal. .20 - —
Group 3 ..... gal. .15125- —
Houston, Texas ..... gal. .16 - —
200°F-240°F b.r., tankcars, New Jersey or New York.. gal. .20 - —
Group 3 ..... gal. .14125- —
Houston, Texas ..... gal. .16 - —
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald lb. .1985- —
bbls., dms., 20 or more, frt. equald lb. .2035- —
bbls. dms. 5 to 19 frt. equald. lb. .2085- —
bbls., dms., 1 to 4, frt. equald. lb. .2135- —
80%, bbls., c.l., dms., frt. equald lb. .3335- —
bbls., dms., 20 or more, frt. equald lb. .3385- —
bbls. dms 5 to 19 frt. equald. lb. .3435- —
bbls., dms., 1 to 4, frt. equald. lb. .3485- —
Plastic grade, 50%, c.l., bbls., works lb. .2740- —
bbls. 20 or more, works lb. .2790- —
bbls., 5 to 19, works .... lb. .2840- —
bbls. 1 to 4, works ..... lb. .2890- —
80%, bbls., c.l. works..... lb. .4625- —
bbls. 5 to 19, works .... lb. .4725- —
bbls., 1 to 4, works ..... lb. .4775- —
Lactic acid, tech., 44%, bbls., c.l., works..100 lbs. 12.45 - —
bbls., l.c.l., works....100 lbs. 12.85 - —
USP, 85% cbys. ..... lb. .55 - —
Lactose, crystalline, edible, bgs., 23,000-lb. lots, frt. equald. lb. .14 - —
bgs., 6,000-lb. lots, frt. equald lb. .14½- —
bgs., 2,000-lb. lots, frt. equald lb. .14¾- —
bgs., 200-lb. lots, frt. equald lb. .15¼- —
Edible lactose in fib. dms., ½c. higher.
Lactose, ferment. grade, bgs., c.l., works lb. .08½- —
USP, reg., fib. dms., 30,000-lb. lots, frt. equald. lb. .21½- —
fib. dms., 2,000-lb lots, frt. equald lb. .22¼- —
200-1,380-lb. lots, frt. equald lb. .22¾- —
USP lactose in bags ½c to 1c lower.
Lactose, USP, spray dried, bgs., t.l., frt. equald lb. .18½- —
bgs., t.t.l. frt. equald ... lb .19 - .19¾
Lady's slipper root, bls ..... lb. 3.00 - 3.50
Lake C red toner, alizarine, bbls., works lb. 1.25 - —
Lamp black, bgs. c.l., works .. lb. .16 - .45
Lanolin, USP, anhyd., 400-lb. dms., works lb. .24 - .26
USP, anhyd., cosmetic, 400-lb. dms., works lb. .26 - .30
USP, hydrous, 400-lb. dms., works. lb. .24 - —
Lard, cash, dms., Chicago ..... lb. .08¼- —
Lard oil (see Grease oil).
Larkspur seed, bgs..... lb. .43 - .45
Laurel leaf oil, dms. cns. ..... lb 9.75 -12.50
Laurent's acid, bbls..... lb. .70 - —
Lauric acid, pure, dms..... lb. .38½- .41
tanks ..... lb. .36 - .37
Lauryl alcohol, bots. ..... lb. 2.00 - 2.50
n-Lauryl methacrylate, dms., c.l., t.l. works lb. 65½- —
dms., l.t.l., works ..... lb. .66 - —
Lavandin oil, 22-24%, dms. ..... lb 1.10 - 1.50
Abrial, dms. ..... lb 1.00 1.50
Lavender flowers, medium, bls lb. .55 - .60
Ord., bls. ..... lb. .20 - .25
Select., bls. ..... lb. .90 1.00
Lavender flower oil, USP, French 35-37% ester, cns lb. 1.85 - 4.00
40-42% ester cns ..... lb 5.00 7.75
Spike, Spanish, cns ..... lb 2.20 3.00
Lead acetate, NF, cryst., gran., powd., bbls lb. .34½- —
White, cryst., bbls. ..... lb. .25½- —
gran., bbls. ..... lb. .26½- —
powd. bbls. ..... lb. .26½- —
Lead arsenate acid powder, dealers, 3-50 lb. bgs or any quantity, frt. alld. on $150 or more lb. .30½- —
1-lb. bgs., same basis ... lb. .47 - —
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld. ... lb. .17 - —
bbls., l.c.l., same basis ..... lb. .18 - —
Lead carbonate (see Lead, white, basic carbonate)
Lead chloride, dms. ..... lb. .53 - —

• low sweetness • soluble, uniform • free flowing, anti-caking aid
• flavor-enhancing • pigment-absorbing
• non-reacting with other ingredients • fermentation agent
• bland, almost tasteless triturate

Lactose is an amazing sugar with unlimited uses. It can improve your present products and help you develop new ones. It can lower your costs, simplify your processing. New uses are being discovered for it every day.

Only Western can supply you with all forms of Lactose—five grades, ten granulations. Strict chemical and bacteriological specifications and a rigid quality control program assure highest quality.

Take a fresh look at the characteristics of Lactose. One of the grades or granulations may help solve a problem you are working on right now. For free samples and information, write our Technical Service, Department 21B. (Tell us the applications you are considering.)

lactose

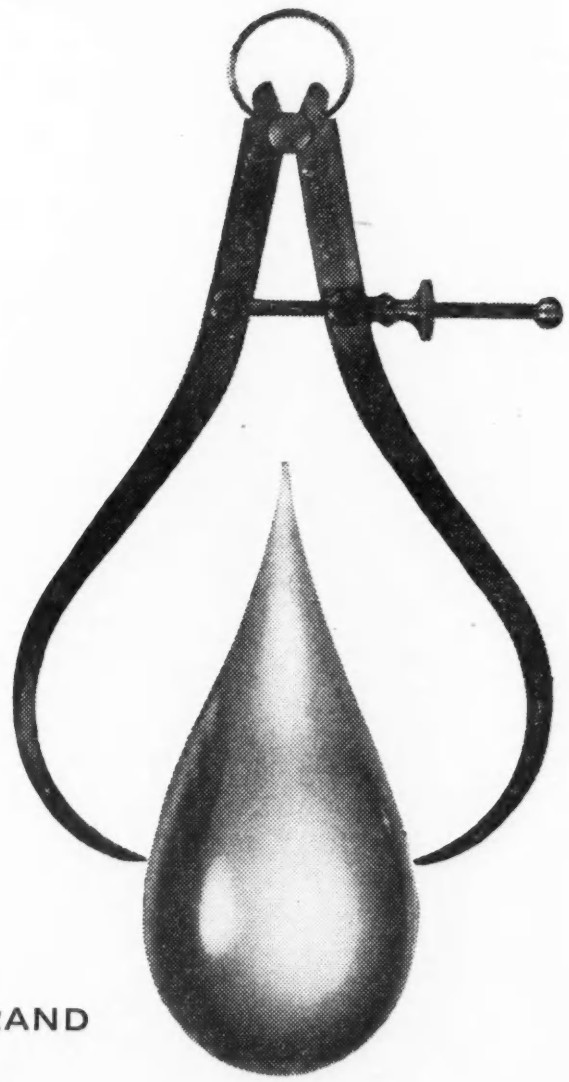
WESTERN CONDENSING COMPANY
Appleton, Wisconsin
World's Largest Producer of Lactose-Pure Milk Sugar

Distributed Nationally by Chemical Department, McKESSON & ROBBINS, INC.

Lead iodide, NF, V, jars ..... lb. 3.82 - —
Lead linoleate, fused, 26% Pb, dms. ..... lb. .38 - —
Lead metal, prime pigs, New York ..... lb. .12½- —
St. Louis ..... lb. .1230- —
Lead monosilicate, bgs., c.l., works, frt. equald ..... lb. .1385- —
bgs., l.c.l., same basis ..... lb. .1485- —
Lead naphthenate, liq., 16% Pb, dms., dlvd ..... lb. .19½ - —
24% Pb, dms., dlvd. ..... lb. .24¼ - —
Solid, 37% Pb, dms., dlvd ..... lb. .31¾ - —
Lead nitrate, bbls ..... lb. .24¼ .26¾
Lead orthosilicate gel, 50-60% PbO, dms., works ..... lb. .29¾ .34¼
Lead peroxide, tech, powd, bbls ..... lb. .45 .50
Lead phthalate, dibasic, dms., works ..... lb. .41 —
Lead, red, 95% Pb_3O_4 or less, bbls., c.l., works, frt. equald. ..... lb. .1425- —
bbls., l.c.l., same basis ..... lb. .1525- —
97% Pb_3O_4, bbls., c.l., same basis ..... lb. .1445- —
bbls., l.c.l., same basis ..... lb. .1545- —
98% Pb_3O_4, bbls., c.l., same basis ..... lb. .1460- —
bbls., l.c.l., same basis ..... lb. .1560- —
Lead resinate, precip, 23% Pb, dms., ton lots, dlvd ..... lb. .43¾ - —
Lead salicylate, normal, dms., works ..... lb. .46 - —
Lead silicate (see Lead white, basic silicate).
Lead silicochromate, bgs., c.l., f.o.b. mfrs. point, frt. alld ..... lb. .20 - —
bgs., l.c.l., same basis ..... lb. .21 - —
Lead sulfate (see Lead blue, basic sulfate).
Lead tallate, liq., 16% Pb, dms ..... lb. .17¼- —
24% Pb, dms ..... lb. .26¾- —
Solid, 30% Pb, dms ..... lb. .23¼ - —
Lead, white, basic carbonate, bgs., c.l., shipt. pt. frt. alld ..... lb. .18 - —
bgs., l.c.l., same basis ..... lb. .19 - —
Lead, white, basic silicate, bgs., c.l., shipt. pt. frt. alld ..... lb. .16½- —
bgs., l.c.l., same basis ..... lb. .17½- —
Lead, white, basic sulfate, bgs., c.l., shipt. pt., frt. alld ..... lb. .17 - —
bgs., l.c.l., same basis ..... lb. .18 - —
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works ..... lb. .14 - .15
non-ret. dms., l.c.l., same basis ..... lb. .15 - .16
unbleached, non-ret. dms., c.l., same basis ..... lb. .13 - .14
non-ret. dms., l.c.l., same basis ..... lb. .14 - .15
Lemon bioflavonoid complex, 100-lb. package, works ..... lb. 6.45 - —
Lemon oil, USP, Calif. ens., dms. ..... lb. 1.40 - 1.50
Messina, ens. ..... lb. 3.75 5.00
Lemongrass oil, ens., dms. ..... lb. 2.00 - 2.20
dl-Leucine, dms., works ..... lb 12.25 -15.00
Licorice root, gran., bls. ..... lb. .13 - —
Powd., bls. ..... lb. .15 - .16
Whole, bls. ..... lb. .09 - .10
Lignaloe wood oil, Mexican, ens ..... lb. 2.75 - 3.50
Lignosulfonate (see under ammonium or sodium lignin sulfonate).
Lime, chemical (quicklime), bulk, c.l., 50,000 lbs., works, E. ..... ton.14.25 - —
Chemical, hydrated, bgs., c.l., same basis ..... ton.17.25 - —
Chemical, spray, bgs., c.l., same basis ..... ton.18.25 - —
For New York delivery, add $6.29 freight charge.
Lime oil, dist., Mexican, ens ..... lb. 5.90 - 6.75
West Indian, ens. ..... lb. 6.50 - 7.80
Expressed, West Indian, ens ..... lb. 7.75 - 8.75
Lime salts (see Calcium).
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool, ex bois de rose oil, dms. ..... lb. 2.90 - 3.75
Syn., 98-100% dms., works ..... lb. 3.20 3.60
Linalyl acetate, ex bois de rose, 90-92%, dms ..... lb. 2.75 - 3.40
96-98%, dms. ..... lb. 3.25 - —
Syn., 98-100%, dms., works ..... lb. 3.40 - —
Lindane, 25% formulation to distributors, dms., frt. alld ..... lb. 1.35 - 1.50
Lindane, tech., to formulators, 250-lb. dms., 5,000 lbs., dlvd ..... lb. 2.13 - —
100-lb. dms., 5,000-lbs., dlvd ..... lb. 2.15 - —
250-lb. dms., less than 5,000-lbs., dlvd ..... lb. 2.18 - —
100-lb. dms., less than 5,000-lbs., dlvd ..... lb. 2.20 - —
Linden flowers, with leaves, bls ..... lb. .35 - .40
Without leaves, bls ..... lb. .42 - .45
Linseed meal, expeller, 32% bulk, Minneapolis, mills ..... ton.65.50 - —
Extracted, 34% bulk, same basis, ... ton.53.50 - —
Linseed oil, raw, dms., c.l., New York ..... lb. .1710- —
dms., l.c.l., New York ..... lb. .1800- .1875
tanks, f.o.b. Minneapolis ..... lb. .1350- —
tanks, New York ..... lb. .1461- —
tankwagon, New York ..... lb. .1511- —
Boiled linseed oil, .006c. per lb. higher.
Linseed oil, acid, dist., dms. ..... lb. .2060- —
Water-white, dms. ..... lb. .2360- —
Litharge, comi., powd. bbls., c.l., works, frt. equald ..... lb. .1375- —
bbls., l.c.l., same basis ..... lb. .1475- —
Lithium aluminum hydride, lump, dms. works ..... lb. 33.00 - 39.00
Lithium benzoate, dms ..... lb 1.65 1.67
Lithium bromide, NF, gran., bgs., works, frt. equald ..... lb. 2.60 - —
Lithium carbonate, NF, dms., c.l., t.l., dlvd ..... lb 1.29½- —
dms., ton lots to t.l., dlvd ..... lb 1.30 - 1.20½
Tech., dms., c.l., t.l., frt. alld ..... lb. .67 - —
dms., ton lots, same basis ..... lb. .73 - —
dms., smaller lots same basis, ... lb. .79 - —
Lithium chloride, CP, annyd., dms., ton lots ..... lb 1.23½- —
Tech., anhyd., dms., c.l., t.l., dlvd, or works, frt. alld ..... lb. .87 - —
dms., l.c.l., same basis ..... lb. .88 - .92
Lithium citrate, NF, dms., ton lots, ... lb 1.50 - —
Lithium fluoride, dms., 20,000-lb lots, dlvd ..... lb 2.15 - —
bbls., ton lots and more, dlvd ..... lb 2.18½- —
bbls., less ton lots, dlvd ..... lb 2.23½- —
Lithium hydride, powd., dms., 500-lb lots or more, works ..... lb 9.50 - —
Lithium hydroxide, monohydrate, dms., c.l., t.l., frt. alld ..... lb. .72 - —
dms., l.c.l., frt. alld ..... lb 73 - —
Lithium manganate, dms., works ..... lb 95 1.05
Lithium nitrate, tech., dms., 100-lb lots ..... lb 1.15 1.25
Lithium salicylate, dms. ..... lb 1.60 1.70
Lithium silicate, dms., works ..... lb 1.10 1.20
Lithium stearate, dms., c.l., works, ... lb. 47½ - —
dms., ton lots, works ..... lb. 48½ - —
dms., less-ton lots, works ..... lb. 53½ - —
Lithium sulfate, dms., 100-lb. lots, ... lb. 1.15 1.25
Lithium titanate, dms., works ..... lb. 1.15 1.25
Lithol red toner, barium, bbls., works ..... lb. .98 - —
Lithol-rubine red toner, pure, bbls., works ..... lb 1.50 - —
Resinated, bbls., works ..... lb 1.47 - —
Lithopone, ord., bgs., c.l., dlvd E, ... lb. 08⅜- —
bgs., l.c.l., dlvd E ..... lb. 0.3⅛- —
Titanated (high-strength), bgs., c.l., dlvd ..... lb. .11 - —
bgs., l.c.l., dlvd. ..... lb 12 - —
Lobelia herb, bls ..... lb .55 - —
Loheline sulfate, bots., 50-oz. lots, works ..... oz.30.00 - —
Locust bean gum, powd., bgs ..... lb. .38 - .40
Lycopodium, cs. ..... lb. 3.25 - 3.50
l-Lysine monohydrochloride, 25 lb. dms ..... lb. 4.95 - —

M

Mace, Siauw, No. 1, bls. ..... lb. 1.90 - —
No. 2, whole, bls ..... lb 1.65 - —
siftings, bls. ..... lb 1.60 - —
Mace oil, dist., ens., dms ..... lb 9.75 -12.25
Magnesia, calcined, tech., bgs., ctns., frt. equald ..... lb. .25¾ .26⅛
Tech., syn., rubber grade, light, bgs., c.l., frt. equald ..... lb. 28¾- .30
rubber grade, extra light, bgs., c.l., frt. equald ..... lb 28 - —
bgs., l.c.l., frt. equald ..... lb 28¾ - —
Above prices are quoted f.o.b. works, freight equald, with Metropolitan New York and competitive producing points
Magnesia, calcined, tech., heavy, 85%, bgs., c.l., f.o.b. Luning, Nev. ..... ton.39.50 - —
91%, bgs., c.l., same basis, ... ton.49.50 - —
95%, bgs., c.l., same basis, ... ton.59.00 - —
USP, light, bgs. ..... lb. .36½- .37⅛
USP, heavy, bgs. ..... lb. .36½- .37⅛
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ..... ton.86.25 - —
Chemical grade, deadburnt, standard grain, bulk, c.l., Chewelah, Wash. ..... ton.46.00 - —
Magnesium bromide, cs., jars ..... lb. .95 - 1.00
Magnesium carbonate, tech., bgs., c.l., frt. equald ..... lb. .11 - —
bgs., t.l., frt. equald ..... lb. .11½- —
bgs., l.c.l., frt. equald ..... lb. .13½- .14
USP, bgs., c.l., frt. equald ..... lb. .13½- —
bgs., t.l., frt. equald ..... lb. .14 - —
bgs., l.c.l., frt. equald ..... lb. .15 - .16
Above prices are quoted f.o.b. works, freight equald, with Metropolitan New York and competitive producing points.
Magnesium chloride, anhyd., 92%, flake or pebble, dms., c.l., works ..... lb. .12¾- —
dms., l.c.l., works ..... lb. .14 - .15
Hydrous, 99%, flake, bgs., c.l., works ..... ton.55.00 - —
bgs., l.c.l., works ..... ton.65.00 -80.00
Magnesium gluconate, 100-lb. dm., f.o.b. works E ..... lb. 1.42 - —
Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b., works ..... lb. .24⅛- .25⅛
Magnesium lauryl sulfate, dms., c.l., frt. alld ..... lb. .22½- —
dms., t.l., frt. alld ..... lb. .23½- —
tanks, frt. alld ..... lb. .21½- —
Magnesium metal, 99.8%, ingots, 10,000-lb. lots or more, works ..... lb. .36 - —
pigs, 10,000-lb. lots or more, works ..... lb. .35¼- —
sticks, cs. works frt. alld. on carlots ..... lb. .59 - —
Magnesium nitrate, cryst., dms., works ..... lb. .29 - —
Magnesium oxide (see Magnesia, calcined).
Magnesium phosphate, tribasic, NF, bbls ..... lb. .75 - —
Magnesium silicate (see Talc).
Magnesium silicofluoride, dms., works ..... lb. .10½- .12
Magnesium sulfate, tech., bgs., c.l., works ..... 100 lbs. 2.15 - —
bgs., l.c.l., works. ..... 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. ..... 2.35 - —
bgs, l.c.l., 5,000 lbs., 1 withdrawal ..... 100 lbs. 3.10 - —
bgs, smaller lots ..... 100 lbs. 3.35 - —
Magnesium trisilicate, USP, fib. dms., 5,000-lb. lots ..... lb. .38 - —
fib. dms., 1,000-lb lots ..... lb. .40 - —
fib. dms., 100-lb. lots ..... lb. .45 - —
Bulky and super grades of magnesium trisilicate 7c. per lb. higher.
Malachite green, straight, PTMA, bbls, works ..... lb. 1.30 - —



IN
EXCHANGE BRAND
LEMON OIL

THE DIFFERENCE IS THE SAMENESS

Batch after batch...year after year...the same full, tangy taste and aroma of real California lemon!

You get uniformity—for sure—with Exchange Brand Lemon Oil, U.S.P., California Cold Pressed.

The Exchange Brand label represents over 40 years of experience in the citrus business...and the world's largest supplies of lemons. From these stocks, lemons are picked and chosen...and skillfully pressed and bulk blended for matchless uniformity.

Every container—from 7-pound tin to 385-pound drum—is packed and sealed in a spotless, modern plant. Every drop is guaranteed to be pure, U.S.P. quality oil—unadulterated, unsophisticated. Always look for the word "Exchange" on the tamper-proof container seal.

Exchange

LEMON OIL, U.S.P.
California Cold Pressed

Sunkist Growers
PRODUCTS SALES DEPARTMENT • ONTARIO, CALIFORNIA

Distributed in the U.S. by:
Dodge & Olcott, Inc., 180 Varick St., New York 14, N.Y.
Fritzsche Brothers, Inc., 76 Ninth Ave., New York 11, N.Y.
Ungerer & Co., 161 Avenue of the Americas, New York 13, N.Y.

Malathion, dms., c.l., works ..... lb. .89 - —
dms., l.c.l., works ..... lb. .92 - 1.01
Maleic acid, cryst., powd., dms. lb. .37¼ - —
Maleic anhydride, dms., c.l., frt. equald. lb. .23½ - —
dms., l.c.l., frt. equald. ..... lb. .25 - —
tanks, frt. equald ..... lb. .22½ - —
Malic acid, tech., dms. ..... lb. .50 - —
Mandelic acid, NF, dms., 1,000-lb. lots lb. 2.35 - —
dms., smaller lots ..... lb. 2.40 - 2.50
Mandrake rôot, bls ..... lb. .40 - —
Manganese acetate, dms., dlvd ... lb. .35 - —
Manganese borate, tecn., fib. dms. lb. .23½ - —
Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb. lots and more, works lb. .11 - .19
Manganese chloride, CP, anhyd., dms., 20,000-lb. lots, works lb. .21¼ - —
smaller lots, works ..... lb. .23½ - —
Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, burlap paper lined bgs., gross for net works ton 148.00 - —
40,000 to 99,999-lb. lots, paper bgs., same basis ..... ton 144.50 - —
40,000 to 99,999-lb. lots, dms., same basis ton 152.50 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Manganese gluconate, dms. ..... lb. 1.84 - —
Manganese hydrate, dms., dlvd lb. .35 - —
Manganese hypophosphite, NF dms. lb. 3.52 - —
Manganese linoleate, liq., 4.35% Mn, dms lb. .35¾ - —
Solid, precip., 8.2% Mn, bbls lb. .41¼ - —
Manganese metal, electrolytic, dms., c.l., dlvd. E. ..... lb. .34 - —
dms., ton lots, dlvd E. ..... lb. .36 - —
dms., smaller lots, dlvd. E. lb. .38 - —
Manganese naphthenate, liq., 6% Mn, dms., frt. alld lb. .29¾ - —
Manganese resinate, fused, 3½% Mn, dms. lb. .29¼ - —
Precip., 6½-7% Mn, dms. ..... lb. .37 - —
Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd S. E. ton 97.50 - —
bgs., l.c.l., dlvd S. E. ton 104.50 - —
Manganese tallate, 6% dms. ..... lb. .26½ - —
Manila copal gum, C, bgs. ..... lb. .35 - .39
DBB, bgs. ..... lb. .25 - .28
DK, bgs. ..... lb. No stocks.
DK, dust bgs. ..... lb. .14 Nom.
MA, soft, bgs. ..... lb. .20 - .24
WS, bgs. ..... lb. No stocks.
Mannitol, com'l, fib. dms., ton lots, works lb. .60 - —
fib. dms. to ton lots, works lb. .62 - —
fib. dms., single dm., works lb. .65 - —
Marine pitch, dms. ..... lb. .04½ - .05
MBTS (see Mercaptobenzothiazyl disulfide)
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works ..... lb. .26 - —
bgs., l.c.l., works ..... lb. .27½ - —
Menadione USP bots. ..... gram. .044 - .05
Menhaden oil, crude, tanks, works, Atl. & Gulf lb. .07 - —
Menthol, nat., USP, Brazilian, large crystals, cs lb. 8.25 - 9.00
Nat., USP, Brazilian, regular crystals, cs. ..... lb. 8.50 - —
Japanese, cs. ..... lb. 12.00 - —
Syn., USP, racemic, 25-lb. lots lb. 4.25 - —
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots, works, frt. alld lb. .44 - —
bgs., fib. dms. less ton lots, same basis lb. .46 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton lots, works, frt. alld lb. .54 - —
bgs. fib. dms. less ton lots, same basis lb. .56 - —
Mercuric chloride, NF, cryst., dms., 50-lb lots or more lb. 4.98 - —
USP, gran. or powd., 50-lb. dm., 100 lbs., f.o.b. works lb. 4.73 - —
Mercuric cyanide, NF VIII, powd., fib. dms lb. 6.84 - —
Mercuric iodide red, NF, 100-lb. dm., f.o.b. works lb. 7.72 - —
Mercuric oxide, red., NF IX, 50-lb. dm., 100 lbs., f.o.b. works lb. 5.97 - —
tech., 50-lb. dm., 100 lbs., same basis lb. 5.77 - —
Mercuric oxide, yellow, NF, 50-lb. dm., 100 lbs., same basis lb. 6.14 - —
tech., bbls. 1,000-lb. lots .. lb. 5.58 - —
bbls., smaller lots ..... lb. 5.60 - —
Mercurous chloride (see Calomel).
Mercurous iodide, yellow, NF, 100-lb. dm., f.o.b. works lb. 8.22 - —
Mercury, ammoniated (see White precipitate, USP XV).
Mercury metal, 76 lbs. per flask, net-flask 214.00 - 215.00
Mesityl oxide, dms., c.l., dlvd. ... lb. .15 - —
dms., l.c.l., dlvd. ..... lb. .16½ - —
tanks, dlvd. ..... lb. .12½ - —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanilic acid, dms., works ... lb. .57 - .73
Metanitroparatoluidine (see m-Nitro-toluidine).
Metanitroaniline (see m-Nitroaniline).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methacrylic acid, glacial, 98%, dms., truckloads, frt. equald lb. .42½ - —
dms., smaller lots, frt. equald. lb. .43 - .73
tanks, works, frt. equald lb. .40 - —
Methanol, nat., denaturing grade, tanks, frt. alld gal. .85 - —
Syn., zone 1, dms., c.l. or t.l. min., dlvd gal. .51½ - —
dms., l.c.l., dlvd ..... gal. .61½ - —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .33 - —
Methanol, nat., zone 1, tankwagon, 4,000 gal. min., dlvd gal. .30 - —
tankwagon, 4,000 gal. min., f.o.b. terminal gal. .29 - —
Syn., zone 2, dms., c.l., or t.l., min., frt. alld or dlvd. gal. .55½ - —
dms., l.c.l., works ..... gal. .63½ - —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .39 - —
tanks, 4,000 gal. min. dlvd. gal. .34 - —
Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt. equald lb. 21.75 - —
Methapyrilene hydrochloride, 100-999 lbs., dms., f.o.b. works, frt. equald. lb. 27.25 - —

Methenamine (see Hexamethylenetetramine).
Methionine hydroxyanalogue, (calcium salt) 90% min., dms., t.l., frt. alld. .... lb. 1.10 - —
dms., l.t.l., same basis ..... lb. 1.16 - —
dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb. 3.50 - —
Feed grade, 98%, fib. dms., same basis lb. 1.55 - —
Methyoxychlor, 50% wettable powder, dealers, dms., cs. ... lb. .66 - —
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .21½ - —
non-ret. dms., t.c.l., same basis. lb. .22 - .22½
Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd. zone 1 lb. .23½ - —
non-ret. dms., l.c.l., same basis. lb. .24 - .24½
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio., Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.
Methyl acetone, nat., dms., l.c.l., E. of Miss., frt. alld. gal. .62½ - —
Syn., dms., c.l., frt. alld E. .... gal. .66 - —
dms., l.c.l., frt. alld. E. .... gal. .76 - —
tanks, frt. alld. E. ..... gal. .51 - —
Synthetic methyl acetone E. territory comprises all states East of and including Colo., Mont., N. Mex. and Wyo. West territory is made up of all states west of those four.
Methyl acrylate, dms., c.l., t.l., dlvd. lb. .39 - —
dms., t.l., dlvd. ..... lb. .40 - —
tanks, dlvd ..... lb. .37 - —
Methyl alcohol (see Methanol).
Methyl amyl acetate, dms., c.l., dlvd. E. lb. .17 - —
dms., t.c.l., dlvd. E. ..... lb. .18½ - —
tanks, dlvd. E. ..... lb. .14½ - —
Methyl amyl alcohol, dms., c.l., dlvd. lb. .17 - —
dms., t.c.l., dlvd. ..... lb. .18½ - —
tanks, dlvd. ..... lb. .14½ - —
Methyl amyl ketone, dms. works. lb. 1.05 - —
N-Methylaniline, tech., tanks, frt. alld lb. .59 - —
Methylanthranilate, cns. ..... lb. 2.45 - 3.00
Methyl benzoate cns., dms. .... lb. .60 - .75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld. lb. .62 - .98
Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .32 - —
50-lb. bgs., 2,000-lb. lots and more, same basis ..... lb. .33 - —
50-lb. bgs., smaller lots, frt. alld on 100 lbs lb. 1.05 - —
Standard vis. (15,400 cps.) 50-lb. bgs., c.l., frt. alld. lb. .59 - —
50-lb. bgs., 2,000-lb. lots and more, same basis ..... lb. .78 - —
50-lb bgs., smaller lots, frt. alld. on 100 lbs lb. .79 - .86
Methyl chloride, indust., cyls., frt. equald lb. .22½ - —
tanks, multi-unit, same basis. lb. .16¼ - —
tanks, single unit, same basis. lb. .12¼ - —
Refrigerator mfrs., cyls., dlvd lb. .43¼ - —
Other consumers or service men, cyls., dlvd lb. .67¼ - —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns. ..... lb 1.55 - 1.80
Methyl ethyl ketone, dms., c.l., dlvd lb. .15 - —
dms., t.c.l., dlvd ..... lb. .16½ - —
tanks, dlvd. ..... lb. .12½ - —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb 45 - —
dms., t.c.l., works ..... lb. 45¾ - —
tanks, works ..... lb. .43 - —
Methyl formate, refd., dms. ... lb. .35 - .40
Tech., non-ret. dms., any quantity works lb. .10 - —
tanks, works ..... lb. .07 - —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs., c.l., works lb. .21 - —
100-lb. multiwall paper bgs., t.l., min. 23,000 lbs., works lb. .21½ - —
100-lb. multiwall paper bgs., l.t.l., works lb. .23 - —
Methyl heptin carbonate, bots fb. 28.00 - 31.00
Methyl p-hydroxybenzoate, fib. dms. lb 1.90 - 2.09
Methyl ionone, standard, cns. dms. lb. 3.40 - 3.83
Methyl isobutyl carbinol (see Methyl amyl alcohol).
Methyl isobutyl ketone, dms., c.l., dlvd lb. .17 - —
dms., t.c.l., dlvd. ..... lb. .18½ - —
tanks, dlvd. ..... lb. .14½ - —
Methyl methacrylate, dms., c.l., t.l., frt. equald. with Belle, W. Va. lb. .31 - —
dms., smaller lots, same basis lb. .31½ - —
tanks, same basis ..... lb. .29 - —

ONE LABEL — *First Grade Only*

ONE PRICE — *That Saves You Money*

. . . and Perfect Performance for *Every* Purpose!

M. C. P.

Pure
Unadulterated
California

LEMON OIL
U. S. P.

An *Exclusively First Grade Lemon Oil* . . . Cold Pressed in California . . . and *Packed by the Producer* to Assure Highest Quality

For nearly 30 years, Mutual Citrus Products Co. has been cold-pressing California lemon oil for distribution by others. Now, M.C.P. LEMON OIL is being *prepared and packed* under the M.C.P. label. There is only *one label* and *one* quality — *the highest* — for M.C.P. LEMON OIL. Yet, M.C.P. LEMON OIL costs you *less* . . . while providing a product that is unsurpassed for flavor, purity, and dependability . . . for *every* purpose.

Produced and Packed by

MUTUAL CITRUS PRODUCTS COMPANY
Since 1928 Growers and Processors of Citrus Products

Distributed by

MUTUAL CITRUS PRODUCTS CO.
424 South Atchison Street, Anaheim, Calif.

R. D. WEBB & CO., INC.
137 Boston Post Road, Cos Cob, Conn.

Methyl Naphthyl Ketone—1-Naphthol-5- Sulfonic 8-Amino Acid

Methyl naphthyl ketone, cryst., cns lb 2.45 - 4.30
Methyl parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Methyl parathion tech. 80% dms., frt. alld E lb. .84 - —
Methyl parathion prices 2c. per lb higher in West.
Methyl roseaniline chloride, NF., 5-lb 6lb dms. lb 6.90 - —
Methyl salicylate dms. t.t., frt. alld lb. .60¼- —
dms. t.c.l. same basis lb .62½ - .67½
Methyl terfosterone USP 100-gram bots gram No Prices.
2-Methyl-5-vinyl pyridine, 40-dm. lots or more, f.o.b. works lb. 1.30 - —
5-39-dm. lots, same basis lb. 1.35 - —
tanks, same basis lb. 1.25 - —
Methyl violet toner, molybdated, PMA bbls., dlvd E of Rockies lb 2.80 - —
Tungstated, PTMA, bbls., same basis lb. 4.35 - —
Methyl violet prices 1c higher W. of Rockies
Methylene blue, 6lb. dms., 100-lb. lots, frt. adjusted lb 3.25 - —
Methylene chloride, tech., straight or assorted, dms., c.l., or t.l. dlvd lb. .13¼- —
dms. t.c.l. t.l. dlvd lb. .15¾- —
tanks, 4,000-gal. min., dlvd. lb. .12¼- —
tanktrucks, 1,000-gal. min., d'lvd. lb. .13¼- —

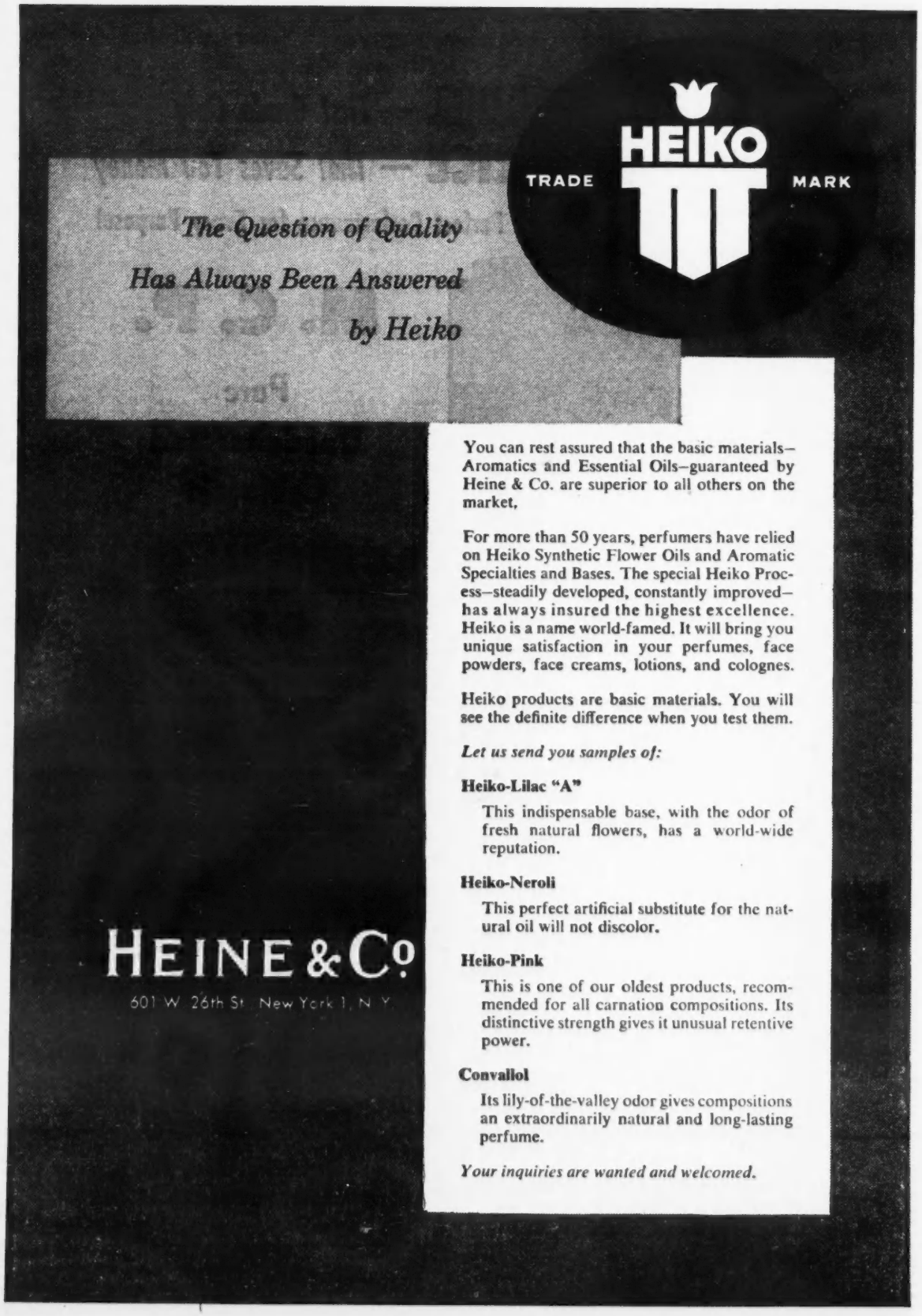
b-Methylnaphthalene, 32°C., m.p., dms., works lb .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint, plastic, 100 mesh, bgs. c.l., works lb. .04 - —
roofing, 20 to 80 mesh works lb. .03 - —
Mica, wet-grd., biotite bgs., c.l., works, frt. alld. E lb. .06½- —
bgs. t.c.l. ex whse. lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh works frt. alld E. lb. .08¼- —
bgs., t.c.l., ex-whse. or freight alld. E lb. .09 - —
rubber bgs., c.l., works, frt. alld. E lb. .08 - —
bgs., t.c.l., ex-whse or trt. alld. E lb. .08¾- —
wallpaper bgs., c.l., works, frt. alld. E lb. .08¾- —
bgs., ex-whse. or frt. alld. E lb. .09 - —
White, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¼- —
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies 1c. higher.
Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 - .12

Mineral black, bgs., works lb. .0160- .0673
Mineral oil, white, tech., 50-65 vis., non-ret. dms., c.l., t.o.b. refy. gal. .65 - —
50-65 vis., non-ret. dms., t.c.l., basis gal. .70 - —
tankcars, refy. gal. .49 - —
65-75 vis., non-ret. dms., c.l., same basis gal. .65 - —
non-ret. dms., t.c.l., same basis gal. .70 - —
tankcars, refy. gal. .49 - —
NF, 80-90% vis., non-ret. dms., c.l., same basis gal. .66 - —
non-ret. dms., t.c.l., same basis gal. .71 - —
tankcars, refy. gal. .50 - —
NF, 135-138 vis., non-ret. dms., c.l., same basis gal. .72 - —
non-ret. dms., t.c.l., same basis gal. .77 - —
tankcars, refy. gal. .56 - —
NF, 145-155 vis., non-ret. dms., c.l., same basis gal. .78 - —
non-ret. dms., t.c.l., same basis gal. .83 - —
tankcars, refy. gal. .62 - —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .80½- —
non-ret. dms., t.c.l., same basis gal. .85½- —
tankcars, refy. gal. .64½- —
USP, 200-210 vis., non-ret. dms., c.l., f.o.b. refy. gal. .82½- —
non-ret. dms., t.c.l. gal. .87½- —
tankcars, refy. gal. .66½- —
USP, 340-350 vis., non-ret. dms., c.l., f.o.b. refy. gal. .87½- —
non-ret. dms., t.c.l. gal. .92½- —
tankcars, refy. gal. .71½- —
(For f.o.b. N. Y. add 2c. for tankcars, 2c. for c.l. and 3c. for t.c.l. non-ret. dms.)

Mineral orange, American, bbls., c.l., works lb. .1550- —
bbls., c.l., same basis lb. .1650- —
Mineral spirits, petroleum, odorless, tankcars, New Jersey gal. .29 - —
New York gal. .305 - —
Houston, Texas gal. .25 - —
regular, tankcars, New Jersey and New York gal. .18 - —
Group 3 gal. .12875- —
Houston, Texas gal. .145 - —
Mink oil, dms lb. 2.75 - —
Mirbane oil (see Nitrobenzene)
MNPT maroon toner, kgs., c.l., works lb 6.30 - —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .09 - —
tanks, New York gal. .13½- —
Molybdated orange, bbls. lb. .49 - —
Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo 7.84 - —
325 mesh, ctns., works kilo 9.13 - —
Molybdenum trioxide, purif., dms., works lb 1.15 - —
Tech. chemical dms. works, basis Mo content lb 1.48 - —
Tech., metallurgical, dms., works, basis Mo. content lb. 1.47 - —
Molybdic acid, 85%, dms., works lb 1.05 - 1.15
Monoallylamine, dms., c.l., dlvd lb. .965 - —
dms., c.l., dlvd. lb. .995 - —
tanks, dlvd. lb. .96 - —
Monobutylamine, dms., c.l., dlvd E. of Rockies lb. .57½- —
dms., t.c.l., same basis lb. .59 - —
tanks, same basis lb. .55 - —
Mono-tert-butyl-m-cresol, dms., c.l., works lb. .55 - —
dms., t.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Monochloracetic acid, purif. (see Chloroacetic acid, mono)
Monochlorobenzene, dms., c.l., frt. alld or dlvd E lb. .10½ - —
dms., t.c.l., same basis lb. .11½- —
tanks, same basis lb. .08¾- —
Monoethanolamine dms. c.l. dlvd. E lb. .27½ - —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine)
Monoethylamine, 70% aqueous, solution, dms., c.l., dlvd. E. 100% basis lb. 38½ - —
dms., t.c.l. dlvd E. 100% basis, lb. .40 - —
tanks, dlvd. E., 100% basis lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidine (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd E lb. .27½- —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoisopropylamine, anhyd., dms., c.l., dlvd lb. .33½- —
dms., t.c.l. same basis lb. .35 - —
tanks, same basis lb. .31 - —
Monomethylamine, anhyd., cyls., t.c.l. frt. equald., 100% basis lb .20 - —
tanks, 100% basis lb. .25 - —
30-33% soln., dms., c.l., frt. equald., 100% basis lb. .36 - —
dms., t.c.l., frt. equald., 100% basis lb. .36½- —
tanks, frt. equald., 100% basis, lb. .26 - —
40% soln., dms., frt. equald., 100% basis lb. .33 - —
dms., t.c.l., frt equald., 100% basis lb. .33½- —
tanks, frt. equald, 100% basis lb. .26 - —
Monopentaerythritol, tech., bgs., c.l., dlvd. E lb. .31 - —
bgs., t.c.l., dlvd. E lb. .32 - —
Monopotassium glutamate dms., 1,000 lb. lots, frt. alld lb. 3.05 - —
dms. 100-lb lots, same basis lb 3.25 - —
Monosodium glutamate dms., 100 lbs., dlvd lb. 1.00 - 1.15
Monosodium phosphate (see sodium phosphate, monobasic).
Montan wax, Calif., refd., bgs lb. .27 - .28
Imp., crude, Bohemian, bgs. lb. .22 - .24
German, bgs lb. .26 - .27
Morphine cns., 100-oz., f.o.b. works, oz. 12.35 - —
Morphine hydrobromide, cns., 100-oz., f.o.b. works oz. 9.90 - —
Morphine hydrochloride, NF, cns., 100-oz., f.o.b. works oz. 9.90 - —
Morphine sulfate, USP, cns., 100-oz., f.o.b. works oz. 9.90 - —
Morpholine, dms., c.l., dlvd. E lb. .55¼- —
dms., t.c.l., dlvd. E. lb. .56¼- —
tanks, dlvd. E. lb. .52¾- —
Muriatic acid (see Hydrochloric acid).
Musk, syn., ambrette, fib. dms., 100-lb. lots lb 4.40 - 4.90
cns., 25-lb. lots lb. 4.50 - 5.00
Ketone, fib. dms., 100-lb. lots lb 4.60 - 5.10
cns., 25-lb. lots lb 4.70 - 5.20
Xylol, fib. dms., 100-lb. lots lb. 1.26 - —
cns., 25-lb. lots lb. 1.40 - —
Mustard seed, Danish yellow, bags. lb. .11½- —
Montana, yellow, bgs. lb. .10½- —
Oriental, bgs. lb. .08 - —
Mustard oil, syn. bots. lb. 1.60 - 1.85
Myristic acid, bgs. lb. .31 - .34
tanks lb. .30½- .32
Myrrh gum, cs lb. .55 - —

N

Naphtha, high solvency (see Solvent naphtha, petroleum).
Naphtha, petroleum, cleaner's (see Cleaner's naphtha).
Naphtha, VM&P, petroleum, tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 - —
Naphthalene, crude, dom., 78°, tanks, same basis lb. .05 - —
imp., 78°, bgs., large lots lb. .09½ Nom.
Refd., indust., chipped, crushed, bgs., frt. equald lb. .12½- —
tanks, same basis lb. .09¾- —
Refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l., same basis lb. .15½- —
cs., 50 lbs., c.l., same basis, lb. .15¾- —
1-lb. pkgs., c.l., same basis, lb. .18½- —
a-Naphthol, dms., frt. alld. lb. 1.00 - —
b-Naphthol, tech., flake, bbls., c.l., works lb. .33 - —
bbls., t.c.l., works lb. .35 - —
Naphthol, ITR, red toner, bbls., works lb. 5.00 - —
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid)
1-Naphthol-4 sulfonic acid (see Nevile and Winther's acid)
1-Naphthol-5-sulfonic acid (see L acid).
1-Naphthol-5-sulfonic 8-amino acid (see S acid).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Convallol
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2-Naphthol-6,8-disulfonic acid (see Gamma acid).
Naphthol sulfonic mixed acid (see Cleve's acid).
a-Naphthylamine, dms., frt. alld lb. .50 - —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 - —
1-Naphthylamine-5-sulfonic acid (see Laurent's acid).
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid).
2-Naphthylamine-1-sulfonic acid (see Tobias acid).
2-Naphthylamine-6-sulfonic acid (see Broenner's acid).
2-Naphthylamine-7-sulfonic acid (see F acid).
Naringin, fib dms lb 8.50 - -
Neatsfoot oil, 13° cold test, dms lb. .29 Nom.
20° cold test, dms lb. .28 Nom.
30° cold test, dms lb. .27 Nom.
Neocinchophen USP dms., frt. adjusted lb 7.00 8.00
Neomycin sulfate, fib dms., 1-kilo basis activity gram .25 - —
fib. dms., 100-999-gram lots, basis activity gram .30 —
Tech., fib. dms gram. .13½- —
Neopentylglycol, dms., c.l., dlvd lb. .32 - —
dms., l.c.l., same basis lb. .33 - —
Neroli oil, NF, French, bots. lb. 425.00 -575.00
Tunisian bots lb 400.00 —
Nerolin, cns. lb. 2.45 - 2.85
Neville and Winther's acid dms., frt. alld lb 1.30 —
Niacinamide (see Nicotinamide)
Nickel acetate bbls. dlvd lb. .68½ 75½
Nickel carbonate bbls. dlvd lb. 78¼ .85¼
Nickel chloride bbls. dlvd lb. .37 .45
Nickel formate, bbls., ton lots, frt. alld lb. .72 .73
Nickel metal, electro cathodes, cs., works lb 74 —
Nickel nitrate dms., frt. alld lb. .31½- .33½
Nickel oxide, black bbls lb 85 —
Green bbls lb. 84 —
Nickel sulfate, bgs. c.l. dlvd lb. .28 —
bgs. l.c.l. dlvd lb. 28½ .36
Nicotinamide USP 50-kilo dm. frt adjusted kilo 8.00 - —
Nicotinamide hydrochloride, dms. frt adjusted kilo 8.00 - —
Nicotine sulfate 40% dealers 50-lb dms. frt alld lb 1.20 - —
40% manufacturers 500-lb dms. frt alld lb 1.05 - —
Nicotinic amide USP (see Nicotinamide)
Niger seed, bgs lb 10¼ - —
Niketharnide, chys lb 5.00 - —
Nitric acid, 38° Be., chys., c.l. works E 100 lbs 5.75 —
chys., l.c.l. works E 100 lbs 6.05 6.85
38° Be., chys., c.l. works E. 100 lbs 6.25 - —
chys., l.c.l. works E 100 lbs 6.55 7.35
40° Be., chys., c.l. works, E 100 lbs 6.75 —
chys., l.c.l., works E 100 lbs 7.05 7.85
42° Be., chys., c.l., works, E. 100 lbs. 7.25 - —
chys., l.c.l., works, E 100 lbs 7.55 8.35
56.5 to 63% HNO_3, tanks, works, 100% basis 100 lbs 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis, 100 lbs 4.90 - —
CP, NF, consumer, chys., extra, c.l., works lb. .18½- —
chys., extra, l.c.l., works lb. 20 - —
5-pint bots, extra, cs., c.l. same basis lb. .22½- —
5-pint bots, extra, cs., l.c.l., same basis lb .24 .25
4-Nitro-2-aminophenol, tech., paste, dms., frt alld lb. 99 - —
m-Nitroaniline, cryst., dms., frt. alld lb 1.15 - —
Paste, dms., frt. alld., 100% basis, lb. 1.10 - —
o-Nitroaniline, flaked, dms., t.l., frt. alld lb. .49 - —
dms., l.c.l., frt. alld lb. .51 - —
o-Nitroaniline, orange, toner, kegs, lb. 1.35 - —
p-Nitroaniline, dms., frt. alld lb. 445 - —
o-Nitroanisole, tech., tanks, frt. alld. lb. .36 - —
p-Nitroanisole, tech., solid, dms., frt. alld lb. .72 - —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .13 - —
dms., l.c.l., frt. alld lb. .14 - —
tanks, frt. alld lb. .11 - —
p-Nitrobenzoic acid, dms., c.l., works lb. .63 - —
dms., l.c.l., works lb. .64 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works lb. .37½- —
bbls., l.c.l., same basis lb. .33½- 40½
18-20, cps., bbls., c.l., same basis lb. .39½- —
bbls., l.c.l., same basis lb. .40½- .42½
250-400, 600-1,000 seconds, bbls., l.c.l., same basis lb. .43 - 46
Spirit soluble, 30-35 cps., ¼, ½ seconds, bbls., c.l., same basis lb. .43 - —
bbls., l.c.l., same basis lb. .44 - 46
5-6 cps., 40-60 seconds, bbls., c.l., same basis lb. .42 - —
bbls., l.c.l., same basis lb 43 45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
o-Nitrochlorobenzene, dms., c.l., frt. alld lb. .15 - —
dms., l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
p-Nitrochlorobenzene, dms. lb. 26 - .27
2-Nitro-p-cresol, tech., dms., dlvd. lb. .88 - —
Nitroethane, dms., c.l., dlvd. E lb. .25 - —
dms., l.c.l., dlvd. E lb. .26½- —
tanks, dlvd. E lb. .22½- —
Nitroethane prices West of Rockies are 1c. higher.
Nitrogen solutions, tanks, frt. equald., N unit. 1.28 - —
Nitrogen tetroxide, indust., tankcars, f.o.b. Hopewell, Va lb. .065 - —
Clys., t.l., min. 5 tons, same basis lb. .07½- —
Clys., l.c.l., .l.t.l., same basis lb. .15 - —
Nitrogenous process tankage, bulk, works unit-ton. 4.50 - 5.00
Nitrogenous sewage sludge, bulk, f.o.b. Chicago, works, unit-ton. 3.50 - .50
Nitromethane, dms. t.l. dlvd. E lb. .25 - —
dms., l.t.l., dlvd. E lb. .26½- —
Nitromethane prices West of Rockies are 1c. higher.
1-Nitronaphthalene, bbls. frt. alld. lb. .31 - —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., c.l., frt. alld. lb. .45 - —
dms., l.c.l., frt. alld lb. .47 - —

1-Nitropropane, dms., c.l., frt. alld. E. of Rockies lb. .23½- —
dms., l.c.l., same basis lb. .25 - —
tanks, same basis lb. .21 - —
2-Nitropropane, dms., c.l., frt. alld. E. of Rockies lb. .18½- —
dms., l.c.l., same basis lb. .20 - —
tanks, same basis lb. .16 - —
Nitropropane prices West of Rockies are 1c. per lb. higher.
m-Nitrotoluene, tech., dms., frt. alld. lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .15 - —
dms., l.c.l., frt. alld. lb. .16 - —
tanks, frt. alld. lb. .13 - —
p-Nitrotoluene, tech., cast, dms., c.l., works lb. .27½- —
dms., l.c.l., works lb. .28 - —
flake, dms., c.l., t.l., works lb. .27½- —
dms., l.c.l., works lb. .28 - —
m-Nitro-p-toluidine, dms. lb 1.25 - —
Nonylphenol, dms. c.l., frt. alld. lb. .22 - —
dms., l.c.l. frt. alld lb. .23 - —
tanks, frt. alld lb. .19½- —
Nonylphenol prices on shipments to Western States are 2c. higher.
Nutmegs, East Indian, whole, bgs. lb. 1.36 - —
West Indian, bgs lb. 1.45 - —
Nutmeg oil, USP, dist., East Indian, cns lb. 9.50 -12.75
West Indian, cns lb. 9.50 -12.75
Nux vomica, bls lb. .20 - —
Powd., bbls., bxs lb .20 - .22

O

Ocher (see Iron oxide, yellow, nat.).
Ocotea cymbarum oil, dms lb. .48 - .55
Octane, indust., tanks, Bayonne, NJ gal. .20 - —
Borger, Tex. gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd., Zone 1 lb. .43½- —
dms., l.c.l., dlvd. Zone 1 lb. .45½- —
tanks, dlvd., Zone 1 lb. .41 - —
Octyl alcohol, perfumery grade, bots lb. 1.60 - 3.25
Octyl alcohol, tech. (see 1-Octanol, tech).
tert-Octylamine, dms., c.l., t.l., f.o.b. works lb. .54½- —
dms., l.c.l., same basis lb. .55 - —
Octyl phenol, bgs., c.l., works lb. .22 - —
bgs., l.c.l., works lb. .22½- —
tanks, works lb. .21 - —
Octyl phenol in dms. 1½c. higher.

OILS

Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liq., dms lb. .19 - .19½
tanks lb. .17 - —
Oleic acid, dbl.-dist. (white), dms. lb. .17½- .20
tanks lb. .15 - —
S. d., dms lb. .16¼- .18¾
tanks lb. .13¾- —
Oleo oil, extra, dms lb. .14 - .14¼
Oleostearine, dms. lb. .12½- .12¾
Oleum (see Sulfuric acid, fuming)
Olibanum gum, siftings, cs. lb 13 .20
Tears, cs. lb 22 .30
Olibanum oil, bots. lb 5.00 7.65
Extra fine, bots lb 8.00 9.50
Olive oil, edible, dms, spot, duty paid gal. 2.30 - 2.40
Olivine, crude, works ton 12.00 —
20 mesh, works ton 15.00 —
100 mesh, works ton 20.00 —
Opium gum, USP, cns., 25-lbs., f.o.b. works oz. 19.20 - —
gran., cns., 50 lbs., same basis oz. 21.65 - —
powd., cns., 50 lbs., same basis oz. 21.65 - —
Orange oil, expressed, USP, Brazil tan cns, dms lb No stocks.
California, cns., dms lb. .70 - .90
Florida, cns., dms. lb. .50 - .60
Messina, cns lb 4.25 5.00
West Indian, bitter, cns, dms lb 2.50 3.25
Sweet, dist., cns., dms lb. 60 —
Orange peel, bitter, Haitian, bls lb. .18 - .20
Sweet lb. .28 - .30
Origanum oil, Spanish, cns lb 1.80 2.30

ORANGE PIGMENTS

Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

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PETROCHEMICALS

Orris root, Florentine, bls. ..... lb. .55 - —
powd. bbls. bxs. ..... lb. .65 - —
Verona bls. ..... lb. .35 - —
powd. bbls. bxs. ..... lb. .45 - —
Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid (see o-Chlorobenzoic acid).
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthocresotinic acid (see 2,3-Creosotic acid).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol).
Orthotolidine (see o-Tolidine base).
Orthotoluidine (see o-Toluidine).
Ouabain USP bots., ... gram 3.00 - 4.00
Ouricury wax, crude, bgs ..... lb. .60 - .61
Refd., pure, bgs. ..... lb. .68 - .69

Oxalic acid, bgs., dms., c.l., works. lb. .18 - .18½
bgs., dms., 10,000-lb. lots, works. lb. .18¼ - .18¾
bgs., dms., smaller lots, works. lb. .19¼ - .19¾
b-Oxynaphthoic acid, pigment manufacture, dms., frt. alld. lb. .912 - —
Dyestuff manufacture, dms., same basis ..lb. 1.03 - 1.14
Oxyquinolin sulfate, cns., 100-lb. lots, works, lb 4.75 5.00
cns., smaller lots, works..... lb. 4.92 - 5.17

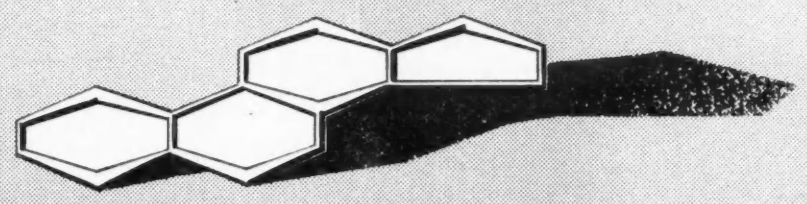
P

Palm oil, clarif., dms..... lb. .14 - .15
tanks ..... lb. .11¾ - —
Palm oil acid, dist., dms..... lb. .15¾ - .19¼
tanks ..... lb. .13¾ - .14¼
Palmarosa oil, cns..... lb. 4.45 - 6.00
Papain, powd., bots..... lb. 5.50 -10.00
Papaverine hydrochloride, nat. or syn., USP, cns. 25-oz. to 100-oz. lots oz. 5.00 - —
cns., smaller lots ..... oz. 5.05 - 5.20
Papaverine sulfate, nat. or syn., USP, cns., oz. 7.10 - 7.35
Paprika, Bulgarian bgs..... lb. .34 - .35
Hungarian, bgs. ..... lb. .32 - —
Spanish, bgs. ..... lb. .50 - —
Yugoslavian, bgs. ..... lb. .34 - —
Para-aminobenzoic acid (see p-Aminobenzoic acid)
Parachlorobenzoic acid (see p-Chlorobenzoic acid).
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitrobenzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2-nitro aniline).
Para-anisidin (see p-Ansidine).
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls..... lb. 1.36 - —
Chlorinated, kgs. ..... lb. 1.35 - —
Paraffin, crude, scale, white, 123°-127°F. ASTM, tanks, refy. lb. .0655 - —
Paraffin, fully refd., 122°-124°F, ASTM., tanks, refy lb. .0765 - —
125°-127°F, ASTM, tanks, refy. lb. .0765 - —
130°-132°F, ASTM, tanks, refy. lb. .0765 - —
132°-134°F., ASTM, tanks, refy. lb. .0765 - —
135°-137°F., ASTM, tanks, refy lb. .0765 - —
AMP temperatures are an arbitrary 3°F. higher than ASTM.
Paraffin oil, pale, 100-110 vis., at 100°F., tanks, east coast refy. gal. .14 - —
Paraffin wax (see Paraffin).
Paraformaldehyde 91%, flake, bgs., c.l., frt. alld lb. .10 - —
bgs., l.c.l., frt. alld..... lb. .12 - .13
91%, powd., bgs., c.l., ex whse. lb. .1715- —
bgs., l.c.l., ex whse..... lb. .1865- —
USP-X, fib. dms., c.l. ..... lb. .19 - —
fib. dms., 1,000-lb. lots..... lb. .20 - —
fib. dms., smaller lots ..... lb. .21¼- —
Paraldehyde, tech., 98%, 55-gal. dms., t.l., dlvd lb. .14 - —
55-gal. dms., l.c.l., dlvd lb. .15 - —
tanks, dlvd. ..... lb. .11½- —
Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrotoluene (see p-Nitrotoluene.
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, ethyl, dms. frt. alld. lb. .84 - —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide)
Paris green, dealers, 100 lb. dms., frt. alld lb. .45 - —
Passion flower herb, bls..... lb. .45 - .50
Patchouli oil, imp., cns. ..... lb. 5.10 - 5.25
Peach kernel oil, USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb. bbls., dlvd. E. of Rockies lb. 1.00 - —
Peacock blue price 1c higher W of Rockies.
Peanut meal, 45% old process, bgs., f.o.b., mills ton 55.00 -56.00
Peanut oil, crude, tanks, f.o.b. mills lb. .14¾- —
Refd., dms. ..... lb. .19¾- .20¼
tanks ..... lb. .17¾- —
Pectin, dom. NF citrus, powd. bbls. lb 2.05 - 2.06
Dom., tech., powd., 150 jelly grade, bbls lb. 1.28 - —
Imp., Danish, bbls. ex whse lb. 1.28 - —
Pelargonic acid, dms., c.l., dlvd lb. .27½- —
ton lots, same basis ..... lb. .23½- —
tanks, same basis..... lb. .25 - —
Penicillin potassium cryst., bulk, 1,000,000 units. .021 - .024
Penicillin procaine cryst., bulk, 1,000,000 units. .021 - .024
Pennyroyal oil USP, imported, cns. lb. 2.25 - 3.10
Pentachlorophenol, bgs., c.l., t.l., works, frt equald lb. .21 - —
bgs., l.c.l., same basis ..... lb. 22½- .29
Pentachlorophenol in dms 1c higher.
Pentaerythritol, tech., bgs., c.l., dlvd lb. .31 - —
bgs., l.c.l., dlvd ..... lb. .32 - —
Pentaerythritol, di-and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, indust., tanks, Tex. refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more lb. 3.00 - —
Pepper, black, Malabar, bgs ..lb. .58 - —
Lampong, bgs. ..... lb. .59 - —
Red, Funtuas, bgs ..... lb. .52 - —
Japanese, Hontoka, bgs .... lb. .37½- —
Santaka, bgs. ..... lb. .31½- —
Sudanese, bgs. ..... lb. .36 - —
White, Muntok, bgs ..... lb. .59 - —
Peppermint leaves, dom., USP, bls., dms lb. .70 - .75
Imp., USP., bls ..... lb. .85 - —
Peppermint oil, nat., dms ..... lb. 4.00 - 4.60
Redist., USP, dms. ..... lb. 4.25 - 5.25
Perchloroethylene, dms., c.l. or t.l., dlvd lb. .13½- —
dms., l.c.l., dlvd ..... lb. .15¼- —
tanks, dlvd. ..... lb. .11¼- —
tanktruck, 1,000 gal. min. dlvd, lb. .12¼- —
Peri acid, dry, bbls., frt. alld lb 1.60 - —
Paste, bbls frt. alld ..... lb 1.55 - —
Peru balsam, dms. ..... lb. 1.30 - 1.45
Persic oil, USP (see Apricot kernel oil).
Petitgrain oil South American, cns., dms lb. 2.50 - 3.25
Petrolatum, cream, dms. c.l., refy. lb. .08125- —
dms., l.c.l., dlvd. ..... lb. .10125- .11375
tanks refy ..... lb. .05375- —
Extra amber, dms., c.l., refy. lb. .07125 —
dms., l.c.l., dlvd. ..... lb. .09125- .10375
tanks, refy ..... lb. .03875- —
Lily white, dms., c.l., refy .... lb. .0825 —
dms., l.c.l., dlvd. ..... lb. .1025 .12
tanks, refy ..... lb. .0675- —
USP, snow white, dms. c.l., refy. lb. .09125- —
dms. l.c.l. dlvd. ..... lb. .11125- .125
tanks, refy ..... lb. .06675- —
USP, soft yellow, dms., c.l., refy. lb. .07125- —
dms., l.c.l., dlvd. ..... lb. .09 - .10375
tanks, refy. ..... lb. .04875- —
Petroleum pitch (see Asphalt, petroleum)

PETROLEUM PRODUCTS
Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works lb. .16½- .18¾
non-ret. dms., l.c.l., works lb. .17½- .19
tanks, works ..... lb. .14½- .17
50-55%, sulfuric content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., l.c.l., works lb. .17 - —
tanks, works ..... lb. .13 - —
o-Phenetidine, dms, c.l., frt. alld, E lb. .81 - —
dms., l.c.l., same basis ..... lb. .83 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms., same basis..... lb. 1.08 - —
Phenobarbitol, USP, dms., 100-lbs., frt. alld lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital).
Phenol, 90-92% (cresol 8-10%) non-ret. dms., frt. alld. E of Rockies lb. .16¾- —
non-ret. dms., l.c.l., same basis, lb. .17¾- —
tanks, same basis ..... lb. .14¾- —
82-84% (cresol 16-18%) non-ret. dms., c.l., same basis lb. .16¼- —
non ret. dms., l.c.l., same basis, lb. .17½- —
tanks, same basis ..... lb. .14½- —
80 C. or above, tar dist., non-ret. dms., c.l., same basis lb. .18 - —
non-ret. dms., l.c.l., same basis, lb. .19 - —
tanks, same basis ..... lb. .16 - —
USP, syn., dms., c.l., t.l., frt. alld lb. .18½- —
dms., same basis ..... lb. .20½- —
tanks, same basis ..... lb. .16½- —

a new standard of leadership...



HARDLY MORE THAN A DECADE AGO, Syntex made its first major contribution in the field of steroid hormones through the development of important new sources of supply — a development which has not only helped to satisfy today's large demand for these hormones, but has been a vital factor in reducing the cost of hormone intermediates.

Today Syntex continues to serve as an important supplier of hormones and intermediates to the pharmaceutical industry. By continued research and constant improvement of production techniques, Syntex has helped to raise the standards of quality and dependability in this significant field of medicine.

one great source of
steroid hormones and intermediates

SYNTEX

Write to: SYNTEX CHEMICAL COMPANY, INC.
10 East 40th Street, New York 16, N. Y.

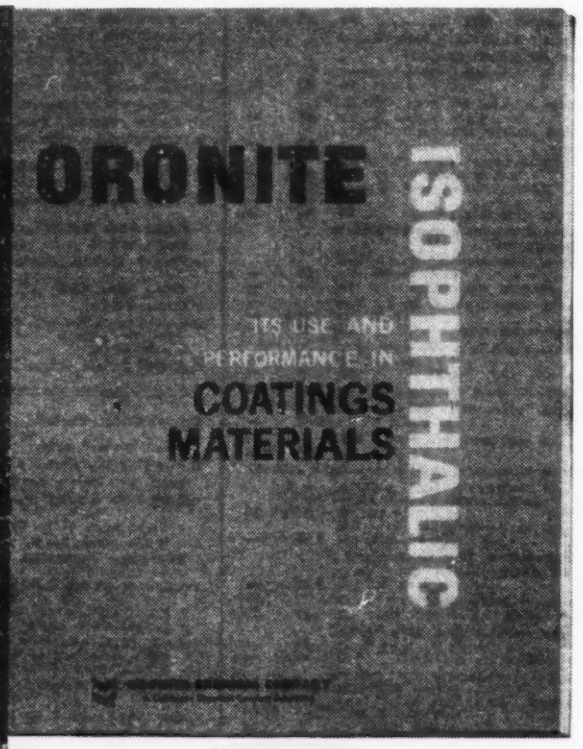
Phenolphthalein, USP or yellow, 250-lb. dm. 2,000 lbs., frt. alld.	lb.	1.30	—
250-lb. dm., same basis	lb.	1.35	—
Phenothiazine drench fib dms., t.l., dlvd	lb.	.44	—
fib. dms., l.t.l., same basis	lb.	.47	—
NF, fib. dms., t.l., same basis	lb.	.43	—
fib. dms., l.t.l., same basis	lb.	.46	—
Phenyl acetate, dms., 100-lb. lots, works	lb	.50	—
Phenyl salicylate (see Salol).			
Phenylacetaldehyde, soln., 50%, bots	lb.	2.35	—
100%, bots.	lb	4.00	4.65
Phenylacetic acid, pure, cryst. cns.	lb.	1.25	1.75
dl-Phenylalanine, dms works	lb.	27.00	37.50
l-Phenyl-3-carbethoxy pyrazolone-5, fib. dms 200-lb. lots dlvd E.	lb	3.45	—
fib. dms., smaller lots, dlvd E	lb	3.80	—
N-Phenyldiethanolamine dms., c.l., dlvd E	lb.	.41	—
dms., l.c.l., dlvd E	lb.	.42½	—
tanks, dlvd. E	lb.	.38½	—
m-Phenylenediamine, dms. frt allo.	lb.	1.10	—
o-Phenylenediamine, coml., fib. dms., 100 to 1,000 lbs., works	lb.	1.70	1.80
p-Phenylenediamine, tech., dms., works	lb.	1.53	—
Phenylethanolamine, dms., c.l., works	lb.	75½	—
dms. l.c.l. same basis	lb.	77	—
Phenylethyl acetate bots.	lb.	1.25	1.40
2-Phenylethyl alcohol, extra, dms.	lb	1.14	1.50
Standard, dms.	lb	1.10	1.60
b-Phenylethylamine, dms., 20,000 lbs. or more frt. alld	lb.	1.50	—
dms., smaller lots, frt. alld	lb.	1.70	1.85
Phenylethylphenyl acetate bots	lb	4.00	4.25
Phenylglyconic acid (see Mendelic acid).			
Phenylhydrazine, 97% 450-lb dms.	lb	1.45	—
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd E	lb	1.80	—
fib. dms. smaller lots, dlvd E	lb	2.10	—
o-Phenylphenol dms., l.c.l., works.	lb.	.48	.50
p-Phenylphenol, bgs., c.l., works	lb.	.38½	—
bgs., l.c.l., works	lb.	.43	—
Philippine copal gum, pale, chips, bgs	lb.	.23¾	.26
nubs, bgs.	lb.	.33¼	.37
seeds, bgs.	lb	.20	Nom.
sorts, bgs.	lb.	.20	.24
Phloroglucinol, coml., fib dms., works	lb.	6.40	—
CP, bots., works	lb	17.75	—
Tech., fib dms., works	lb.	10.45	—
Phloxin red toner (see Eosin red toner).			
Phosgene, ref cyls. works	lb	15½	—
Phosphate, defluorinated (see under Di.			
Phosphate rock, Curacao, Atlantic ports New Orleans	ton	48.00	—
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground 66-68%, b.p.l., bulk, c.l. mines, short-ton		4.093	—
68-70%, b.p.l., bulk, c.l., same basis short-ton.		5.143	—
70-72% b.p.l., bulk, c.l., same basis short ton.		5.723	—
74-75%, b.p.l., bulk, c.l., same basis short ton.		6.628	—
76-77% b.p.l., c.l. bulk, same basis short ton.		7.518	—
Above Florida prices are based on fuel oil at $2.37 per bbl. and labor at $1.39.			
Phosphoric acid, food grade, 75%, cbys., c.l., works, E., frt. equald	100 lbs.	7.00	—
cbys., l.c.l., same basis,	100 lbs.	7.25	7.75
tanks, t.w., works	100 lbs.	5.60	—
80%, cbys., c.l., frt. equald	100 lbs	7.85	—
cbys., l.c.l., works	100 lbs.	8.10	9.35
tanks, t.w., works	100 lbs.	6.00	—
NF, 85%, cbys., c.l., works	100 lbs.	8.50	—
cbys., l.c.l., works	100 lbs.	8.75	9.00
tanks, t.w., works	100 lbs.	6.65	—
Phosphorus, amorph., red, dms., t.l., works	lb.	.55	—
dms., smaller lots, works	lb.	.56	.57
white (yellow), solid dms., c.l., works, frt. equald	lb.	.20	.20½
dms., l.c.l., works, frt. equald	lb.	.21½	—
tanks, works, frt. equald	lb.	.19	—
Phosphorus oxychloride, dms., c.l., works	lb.	.14	—
dms., l.c.l., works	lb.	.15	—
tanks, works	lb.	.12½	—
Phosphorus pentasulfide, powd., dms., c.l., works	lb.	.13½	—
dms. l.c.l., works	lb.	.14½	.15½
Solid, dms., c.l., works	lb.	.11½	—
dms., l.c.l., works	lb.	.12½	.13½
Phosphorus pentoxide, dms., c.l., works	lb.	.1375	.1475
dms., l.c.l., works	lb.	.1475	.1675
Phosphorus sesquisulfide, dms., cs., c.l., works	lb.	.38	—
dms., l.c.l., works	lb.	.39	.40
Phosphorus trichloride, dms., c.l., works	lb.	.14	—
dms., l.c.l., works	lb.	.15	—
tanks, works	lb.	.12½	—
Phthalic anhydride bgs. c.l., works, frt. equald	lb.	.17	.19
bgs., l.c.l., same basis	lb.	.18	.20
tanks, same basis	lb.	.16½	.18½
Phthalimide, 97-98%, dms., frt. alld	lb.	.65	—
Phthalocyanine blue, full strength, bbls dlvd E of Rockies	lb	2.90	—
Resinated, bbls, same basis	lb.	2.75	—
Water dispersable, bbls., same basis	lb.	1.52	—
Phthalocyanine blue prices 1c. higher W of Rockies			
Phthalocyanine green toner, bbls., works	lb	3.35	—
Resinated, bbls	lb	3.00	—
Water dispersable, bbls	lb	1.71	—
Phthalocyanine green prices 1c. higher W of Rockies			
Phthalylsulfacetamide, fib dms., 1,000 lb lots or more	lb	5.00	—
NF, fib dms	lb	5.20	—
a-Picoline dms., c.l., works, frt. equald	lb	.43	.43½
dms., l.c.l., works, frt equald	lb	.44	—
tanks, same basis	lb.	.415	.422
b-Picoline 98% dms. t.l., works.	lb	1.05	—
dms., l.c.l., same basis	lb.	1.15	—
tanks, same basis	lb.	.95	—
b,g-Picoline 5°C dms. c.l., works.	lb.	.32½	—
dms l.c.l. works	lb	.33	—
g-Picoline, dms., f.o.b., works	lb	1.60	—
tanks, t.l. same basis	lb.	1.50	—
Picric acid, NF bbls	lb	.85	—
Tech bbls	lb	.44	—
Pigment green B, kgs	lb.	1.50	—
Pilocarpine hydrochloride, USP, bots oz.		3.25	—
Pilocarpine nitrate, USP bots., vials.	oz.	3.15	—
Pimento, Jamaican, bgs	lb.	.58	—
Mexican, bgs.	lb.	.57	—
Pimento berry oil, NF, dms.	lb	3.75	9.25
Pimento leaf oil, crude, cns.	lb.	2.10	2.48
Pine oil, dest.-dist., dms., l.c.l. works	lb.	.13	—
dms., l.c.l. ex whse New York.	lb.	.173	—
Steam-dist., dms., ex whse., New York	lb.	.185	—
dms., dlvd.	lb.	.188	—
Pineneedle oil, Siberian (see Abies Siberica oil)			
Pinetar oil, coml. dms., c.l., works.	lb.	.0561	—
dms., l.c.l., works	lb.	.0634	—
dms., c.l., ex whse New York.	lb.	.0745	—
tanks, works	lb.	.046	—
NF, rectified, dms., incl., l.c.l., works, South	lb.	.40	—
dms., l.c.l., ex whse, New York	lb.	.41½	—
Refd., dms., incl., l.c.l. works	lb.	.35	—
dms., incl. l.c.l., ex whse New York	lb.	.35½	—
Pink root, bls.	lb.	1.75	—
Piperazine, anhyd., dms., c.l., , frt. alld	lb.	1.80	—
dms., l.c.l., same basis	lb.	1.85	—
Piperazine citrate, 36%, dms., 1,000 lbs. or more frt. alld	lb.	1.15	—
Piperazine dihydrochloride, 51%, dms., 1,000 lbs or more, frt. allo	lb.	1.23	—
Piperazine hexahydrate 44%, dms., 1,000 lbs. or more, frt. allo	lb.	.86	—
dms., 200-900 lbs., frt. allo	lb.	.89	—
Piperazine phosphate, 42% dms., 1,000 lbs. or more frt. allo.	lb.	1.08	—
Piperidine, dist. 98% min., dms., frt. equald	lb	2.60	—
Piperonyl butoxide dms. dlvd E	lb	4.50	5.05

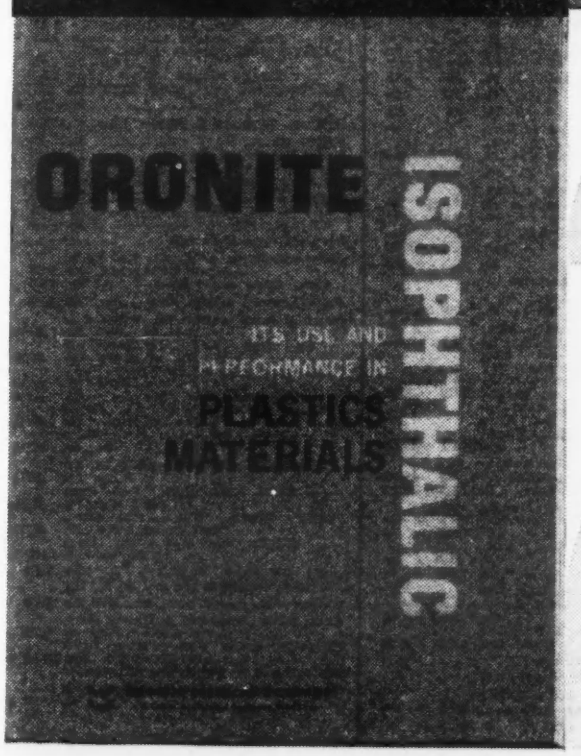
PITCHES

Pitch quotations are listed individually. For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Plaster of Paris (see Gypsum)			
Platinum metal, works	oz.	82.00	85.00
Pleurisy root bls	lb	.45	.50
Podophyllum resin, NF, dms.	lb.	12.50	—
Poke root, bls	lb	.19	.22
Polymyxin, bots., bulk, 50 billion units or more 1,000,000 units.		.52	—
bulk, bots., 25-50 billion units. 1,000,000 units.		.54	—
bulk, bots. 1-25 billion units. 1,000,000 units.		.56	—
Polyoxyethylene sorbitan monostearate, dms 20,000-lb lots, works	lb	.42	—
dms., 10,000-20,000-lb lots, works.	lb	.44	—
dms., smaller lots, works	lb	.47	.49
Polyoxyethylene sorbitan tristearate, dms., 20,000 lb lots, works.	lb	.42	—
dms., 10,000-20,000-lb. lots, works	lb.	.44	—
dms., smaller lots, works	lb.	.47	.49
Pontianak copal gum, chips, bgs	lb.	.25	—
Nubs bgs	lb	.37	.40
Poppy seed, Argentine bgs.	lb	No stocks.	
Dutch, bgs.	lb	.22	—
Danish bgs.	lb	20½	—
Polish bgs	lb	20	—
Turkish, bgs.	lb	17½	—
Potash caustic liq. 45% basis dms., c.l., works 100 lbs		4.25	—
dms. l.c.l. same basis 100 lbs		5.05	—
tanks, same basis 100 lbs		3.70	—
reg., flake, 88-92%, dms., c.l., same basis 100 lbs.		9.15	—
reg., flake 88-92%, dms., l.c.l., same basis 100 lbs.		10.20	—
solid, 88-92%, dms., c.l., works. 100 lbs.		8.70	—
dms l.c.l. works 100 lbs		9.75	—
Potassium acetate NF 200 lb dm., f.o.b works E	lb.	.31	—
Potassium bicarbonate USP gran. dms	lb	.22	—
USP, powd., dms.	lb	.24	—
Potassium bichromate, gran., bgs., c.l., t.l., works	lb.	.18	—
bgs., l.c.l., works	lb	.18½	.19¼
Potassium bichromate in dms. ¾c higher.			
Potassium bitartrate, NF, gran., powd., 100-lb. bgs., c.l., frt. equald	lb.	.37	—
100-lb. bgs. 5,000 lbs. 1 shipt., same basis	lb.	.38	—
100-lb. bgs., smaller lots, same basis	lb.	.40	—

Two New Isophthalic brochures by Oronite





If you are a producer or user of surface coatings or plastics products you will be interested in the use and performance of Oronite Isophthalic in these fields. Two new brochures present the latest information and test data on Isophthalic by the Company who pioneered, developed and first commercially produced this unique raw material.

You will also want to know of the technical service available to users and potential users of Oronite Isophthalic. Please address your inquiry to Oronite's executive offices and ask for the "Oronite Isophthalic plastics brochure" or the "Oronite Isophthalic surface coatings brochure." If you wish both, please request both.

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Foreign Affiliate: California Chemical International, Inc., San Francisco, Geneva, Panama

Potassium borohydride, pdwd., dms., works lb. 16.00 - 22.00
Pelletized postassium borohydride $1.25 per lb. higher in 1,000-lb. lots.
Potassium bromate, dms., 1,000-lb. lots or more, works lb. .50 - —
dms., smaller lots, works lb. .52 - .62
Potassium bromide, USP, gran., bbls., kgs lb. .39 - .40
Potassium carbonate, dom., NF, gran., bbls. dms lb. .20 - —
Dom., tech. powd., bbls., dms lb. .21 - .22
Dom., calcinated, bgs., c.l., works, 100 lbs. 8.50 - —
bgs., l.c.l., same basis 100 lbs. 9.55 - —
Dom., hydrated, 83-85%, bgs., c.l., works 100 lbs. 7.10[a] - —
bgs., l.c.l., works 100 lbs. 8.15 - —
Potassium chlorate, cryst., dms., c.l., works lb. .12¼- —
dms., l.c.l., works lb. .13½- .14½
Powd., dms., c.l., works lb. .12¾- —
dms., l.c.l., works lb. .14 - .15
works lb .12¼- —
NF, cryst., dms., 2,000 lbs. or more, works lb. .16¾- —
NF gran. 25-lb. metal dms lb. .36 - —
NF powd., dms., 2,000 lbs or more works lb. .17¼- —
Potassium chloride indust., 99.9% KCL, bulk, c.l. works ton 29.00 - —
bgs. c.l. works ton 33.50 - —
99.3% KCL bulk, c.l. works ton 27.00 - —
bgs. c.l. works ton 31.50 - —
USP, cryst., dms. lb. .20 - .22
USP, gran., dms. lb. .21 - .23
USP, powd., dms. lb. .24 - .26
Potassium chloride, agricultural (see Potassium muriate)
Potassium chromate tech., dms., works lb. .50 - .51
Potassium citrate, NF, gran., 250-lb. dm., f.o.b. works E lb. .43 - —
powd. 250-lb dms. same basis, lb. .46 - —
Potassium cyanide, dms 20,000-lb. lots or more, works lb. 42½- —
dms., 2,000-19,999 lb lots, works, lb. .43 - —
dms., smaller lots, works lb. .44 - .44½
Potassium dichromate (see Potassium bichromate)
Potassium ferricyanide, dms., ton lots, works lb. .50 - —
dms., smaller lots, works lb. .65 - —
Potassium ferrocyanide, dms., ton lots lb. 24½- —
dms., smaller lots lb. .29 - —
Potassium fluoborate fib dms., c.l., works lb .50 - —
fib dms. l.c.l. works lb .51 - —
Potassium fluoride, dms. works lb. .37 - .38
Potassium gluconate, 100-lb. dm., f.o.b works E lb 1.67 - —
Potassium guaiacol sulfonate, NF, dms lb 2.10 2.30
Potassium hydroxide tech (see Potash caustic).
Potassium hydroxide, USP, pellets, 100-lb dms 1 to 100-dm. lots lb .33½ .38
Potassium hypophosphite, NF, fib. dms., 1,000-lb lots lb 1.38 - —
Potassium iodide USP, cryst. gran., or powd., 250-lb dm., f.o.b. works lb. 1.40 - —
Potassium manure salt, 22% K2O, bulk, c.l., works unit-ton .17 - .1765
Potassium metabisulfite, gran. dms. lb. .16 - —
Powd., dms. lb. .27 - —
Potassium muriate, standard bulk, c.l., works unit-ton. 34½- .36½
bagged, 60% minimum K2O, same basis ton 25.60 -26.80
Gran., bulk, c.l., works unit-ton. .35 - .37
bagged., 60% minimum K2O, same basis ton 25.90 -27.10
Inside prices apply to material contracted for prior to July 1, 1959.
Outside prices apply to material contracted for after that date but also for delivery during the current month
Potassium nitrate, NF, cryst., bbls., 20-ton lots 100 lbs. 17.00 —
bbls., smaller lots 100 lbs 18.00 19.00
NF, gran., bgs., 20-ton lots. 100 lbs 9.50 —
bgs. smaller lots 100 lbs 11.00 12.00
NF, powd., bgs., 20-ton lots. 100 lbs. 10.50 - —
bgs. smaller lots 100 lbs 12.00 13.00
Potassium oxalate, neutral, tech., fine gran. powd. 300-lb. dm., f.o.b. works E lb. .32 - —
Potassium pentaborate, gran., dms., c.l. works ton 219.50 - —
dms. ton lots, ex whse ton 311.00 - —
dms., smaller lots ex whse ton 316.00 - —
Powdered potassium pentaborate $10 per ton higher
Potassium perchlorate, dms., c.l., works lb. .18½- —
dms., l.c.l., works lb. .19 .20
Potassium permanganate comL., kgs., works lb. .25 - .33
USP, dms., works lb. .29 - .35
Potassium persunate, dms., c.l., works lb. .17½ —
dms., l.c.l., works lb. .18 - .21
Potassium pyrophosphate, tetrabasic, dms., works lb. .15½- .18½
Potassium prussiate red (see Potassium ferrocyanide).
Potassium prussiate yellow (see Potassium ferro-cyanide).
Potassium silicate, electrical grade, 30° Be, 1:2.0, dms., c.l., works 100 lbs. 6.50 - —
dms., l.c.l., 5 dm. lots or more, works 100 lbs. 7.25 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms. c.l., works. 100 lbs 5.95 - —
dms. l.c.l., 5 dm. lots or more works 100 lbs 6.70 - —
tanks works 100 lbs 5.60 —
Glass grade, bgs., c.l., works, 100 lbs. 17.30 -18.00
bgs. l.c.l., works 100 lbs. 17.80 —
Soln. 29° Be, 1:2.5, dms., c.l., works 700 lbs. 4.95 - —
dms. l.c.l., 5-dm. lots or more, works 100 lbs 5.70 - —
tanks, works 100 lbs 4.60 - —
Potassium silicofluoride, bgs., works lb. 09½ 10
Potassium silicofluoride in drums, 0.4c per lb. higher.

Potassium stannate, dms., frt. alld. E lb. .780 - .853
Potassium sulfate, agricultural, bulk, c.l., works unit-ton. .67½- .69½
Inside price applies to tonnage contracted for prior to July 1, 1959.
Outside price applies to tonnage contracted for after that date but also for delivery during the current month.
Potassium sulfate, NF VII, cryst., dms lb. .31 - .33
NF VII, gran., dms lb. .18½- —
NF VII, powd., dms lb. .16 - .17
Potassium sulfocyanate, NF, cryst. (see Potassium thiocyanate).
Potassium thiocyanate, NF, cryst., dms., works lb. .96 - .98
Tech., dms., works lb. .77 - .79
Potassium titanate, ctns., c.l., works, lb. .16¼- —
ctns., 5-ton lots, works lb. .16½- —
ctns., 1-ton lots or less, works lb. .16¾- —
Potassium-magnesium sulfate, basis 40%K2SO4 and 18% MgO, bulk, works, base price ton 13.45 - —
bulk, works, July forward ton 14.00 - —
Potassium-sodium tartrate, NF, gran. or powd., 250-lb dms., c.l., f.o.b. works E lb. .42½- —
250-lb. dms., 5,000-lb. lots, same basis lb. .43 - —
250-lb. dms., same basis lb. .43½- —
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
fib dms. l.c.l., works lb .52½ .55
Pregnenolone, bots. gram. No prices
Pregnenolone acetate, bots. gram. No prices.
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.60 - —
dms. 100-500 lb lots lb 2.95 3.15
Progesterone, USP, bots. gram. No prices.
Progesterone acetate, bots. gram No prices.
Propenyl guaethol, dms. lb. 24.30 -27.00
b-Propriolactone, dms., c.l., t.l., f.o.b. works lb. .89 - —
dms., l.c.l., t.l.l., same basis lb. .90 - —
tanks, same basis lb. .87 - —
Propionic acid, syn. pure dms., c.l., works lb. 23¼- —
dms., l.c.l., works lb. .24¾- —
tanks, works lb. .20¾- —
n-Propyl acetate, dms., c.l., dlvd. lb. 14¼- —
dms., l.c.l., dlvd lb. .16¼- —
tanks, dlvd. lb. .12¼- —
n-Propyl alcohol, dms., c.l., dlvd lb. .14 - —
dms., l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .11½- —
n-Propyl gallate, dms., 100 to 2,000-lb lots works lb 3.90 - 4.40
n-Propyl-p-hydroxybenzoate, USP, dms lb 2.30 2.40
Propyl thiouracil, bots., 50 kilo lots or more kilo 55.00 —
bots. smaller lots kilo 55.10 -55.30
n-Propylamine, dms., c.l., dlvd lb. 1.24 - —
dms., l.c.l., same basis lb. 1.255 - —
n-Propylene dichloride, consumers' dms. c.l., dlvd. E lb. .0845- —
dms., l.c.l., same basis lb. .0995- —
tanks, same basis lb. 07 - —
Propylene dichloride prices in West 1c. higher, same basis.
Propylene glycol, indust., dms., c.l., dlvd. E lb. .15 - —
dms., l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12¼- —
USP, dms., c.l., dlvd. E lb. .17 - —
dms., l.c.l., same basis lb. .18¼- —
tanks, same basis lb. .14½- —
Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 - —
dms., l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Propylene oxide, dms., c.l., dlvd E. lb. .17 - —
dms., l.c.l., dlvd. E. lb. .18½- —
tanks, dlvd. E. lb. .14½- —
Psyllium seed, black, bgs lb. .30 - .35
Blonde bgs. lb. .18 - .20
Husks, bgs. lb. .42 - .45
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝- .04¼
bgs., smaller lots lb. .03⅞- —
Imp., Italian, silk-screen, coarse, bgs., ton lots lb. .03½- —
fine, bgs ton lots lb. 04 - —
sun dried, coarse, bgs ton 60.00 - —
fine, bgs. ton 60.00 -70.00
Pumpkin seed, bgs lb. .25 - .26
Pyrethrins, syn (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bgs., ton, works lb. .50 - —
Powd., 1.3% pyrethrins, bgs., ton, works lb. .71 - —
Pyrethrum liquid, 20:1 basis (2 grams pyrethrins per 100cc odorless base), dms., works gal. 9.60 - 9.80
Pyrethrum liquid, 100:1 basis (10 grams pyrethrins per 100cc odorless base), dms., works, gal. 45.90 -46.90
Pyrethrum oleoresin, dewaxed, 20% d.ns., works lb. 11.00 -11.35
purif., 20%, dms., works lb. 11.00 -11.35
Pyridine, denat., dms c.l., works and frt equald gal 2.77 - —
dms l.c.l. same basis gal 2.80 - —
Recd., 2°, non ret. dms., l.c.l., same basis lb. .70 - —
tanks, same basis lb. .65 - —
Pyridoxine hydrochloride USP, 500-gram bots., dms., f.o.b. works, kilo. 175.00 - —
Pyrites, Canadian, 48-50% S, mines, long ton 5.00 - 6.00
Pyrocatechol (see Catechol)
Pyrogallic acid, NF (see Pyrogallol).
Pyrogallic acid, tech., bbls., 100-lbs., f.o.b. works lb. 3.50 - —
Pyrogallol, NF 100 lb dms. lb 3.50 - —
Pyroxylin, USP bots. lb 9.50 - —

Q

Quassia chips lb. .10 - —
Quicksilver (see Mercury metal)
Quince seed, bgs. lb. 1.30 - 1.40
Quinimine sulfate, USP, ens oz. .74½- 77
Quinine, NF, ens. 100-oz lots oz. .34 Nom.
Quinine bisulfate, USP ens oz. .27½- 29
Quinine hydrochloride, ens oz. .23 - .26
Quinine sulfate, USP, ens oz. .23 - —
Quinoline, dms., c.l., frt. equald lb. .50¾- —
dms., l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

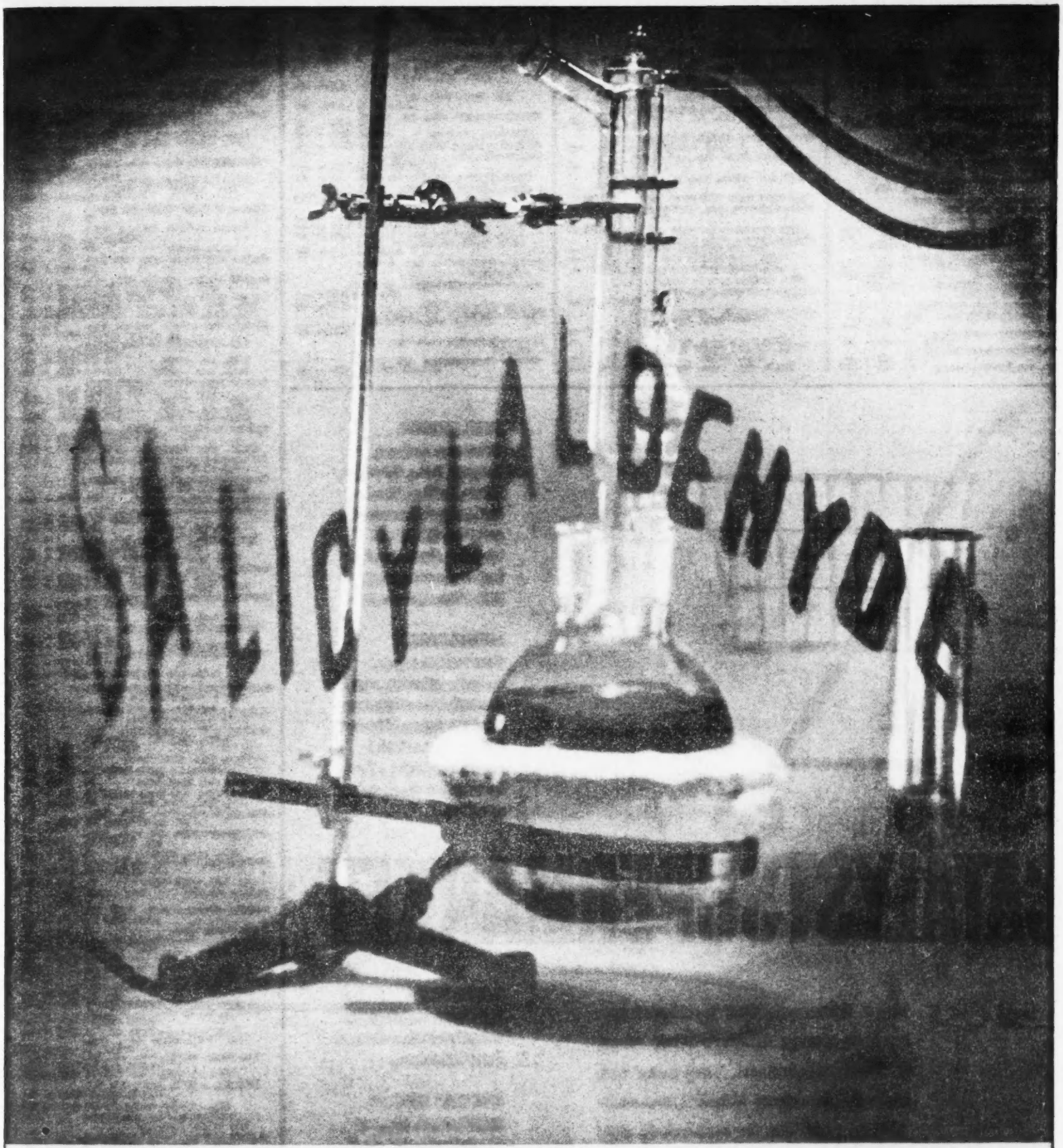
R salt, paste, dms frt. alld., 100% basis lb. .68 - —
Powd., frt. alld. 100% basis lb. 1.08 - —
Rapeseed oil, dms lb. .14¾- .15
tanks lb. .12¾- —
Rare earth chloride, 46% dms., dlvd lb. .25 - —
Rare earth oxalate, NF, 45-50%, bgs., works lb. 1.15 - —
Rauwolfia serpentina root, powd., bbls. dms lb. 1.00 - 1.20
Red carmine, No. 40 (see Carmine).
Red oil (see Oleic acid)

RED PIGMENTS
Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).
Reserpine, cryst., bots gram. 1.25 - —
Resorcinol, tech grade, dms., c.l., works, frt. equald lb. .77½- —
dms., l.c.l., same basis lb. .78½- —
USP, powd., dms., works lb. 2.95 - —
Resorcinol monoacetate, NF, dms. lb. 2.50 - —
Rhatany root, bgs. lb. .14 - .16
Rhodamine red toner, molybdated, PMA, kgs., works lb. 6.00 - —
Tungstated, PTMA, works, kgs lb. 6.60 - —
Rhodinol, 5-lb. cans lb. 42.00 -51.00
Synthetic lb. 14.00 -16.00
Rhubarb root, India whole, bgs lb. .25 - —
powd., bgs. lb. .35 - —
Riboflavin, USP, fib. dms., kilo or more dlvd kilo. 36.00 - —
Riboflavin, USP, readily soluble, bots., dlvd kilo. 130.00 - —
Riboflavin, 5-phosphate-sodium fib. dms., kilo or more dlvd. kilo. 104.50 - —
Rice bran oil, clarified, dms., t.c.l. lb. .14½- .15
tanks, dlvd. E lb. .12½- —
Ricinoleic acid (see Castor oil acids split).
Rochelle salt (see Potassium-sodium tartrate).
Roofing pitch (see Coaltar pitch roofing).
Rose oil, nat., Bulgarian bots oz 72.00 - —
Turkish, bots. oz. 55.00 -58.00
Rosemary oil, Spanish, NF, cns., dms lb. .97 - 1.20
Spanish, tech., cns., dms. lb. .50 - 1.20
Rosin, gum and wood (see Naval Stores in Protective Coatings market)
Rotenone, fib. dms., works, unit-lb. .12 - —
Resin, 25-45% fib dms., works, unit lb. .12 - —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03¾- —
bgs., ton lots same basis lb. .04¼- —
Rubber solvent, petroleum, 115°F-245°F b.r., tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 - —
Rue oil, bots. lb 2.75 - 3.00
Rutin, NF, fib dms., 10 kilo lots kilo. 13.00 - —
fib. dms., 5 kilo lots kilo. 13.50- —
fib. dms., 1 kilo kilo. 14.00 - —
Ryania, 100%, powd., bgs., c.l., works lb. .22 - —
bgs., l.c.l., same basis lb. .24 - —

S

S acid, bbls., works lb. 3.25 - —
Sabadilla seed, activated, ground with lime, bbls lb. .42 - .44
Saccharin, calcium, fib dms., 1,000-lb lots, works lb. 2.30 - —
USP, gran., soluble, dms., 1,000-lb. lots lb. 1.40 - —
dms., smaller lots lb. 1.50 - —
USP, powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.45 - —
dms., smaller lots lb. 1.55 - —
USP, powd., insoluble, dms., 1,000-lb. lots lb. 1.43 - —
dms., smaller lots lb. 1.53 - —
Safflower oil, dms., New York lb. .1755- .18
tanks, Atl. Coast lb. .1555- —
Saffron, Mancha Superior, tins lb. 19.50 - —
Safrol, dms lb. .70 - —
Sage, Dalmatian, bgs. lb. .40 - —
Greek, ens. lb. .16 - —
Italian, ens. lb. .18 - —
Sage oil, clary, bots lb. 20.00 -30.00
Dalmatian, ens. lb. 2.85 - 3.25
Spanish, ens. lb. 1.25 - 1.75
Sal soda (see Soda sal).
Salicylaldehyde, dms., c.l., t.l., f.o.b. plant, frt. equald lb. 1.23 - —
dms., l.c.l., same basis lb. 1.25 - —
Salicylamide, 100-lb dms lb. 1.05 - —
Salicylic acid, crude, fib dms., c.l., t.l., frt alld lb. .37¼- —
fib dms., l.c.l., frt. alld. on 100 lbs or more lb. .38½- —
Sublimed, tech., fib dms., c.l., t.l. dlvd lb. .39¼- —
fib dms., l.c.l. dlvd lb. .43½- —
USP, cryst., 200-lb. fib. dms., 1,000 lbs. or more lb. .50½- —
200-lb. fib. dms., less than 1,000 lbs lb. .52½- —
100-lb. fib. dms., 1,000-lbs. or more lb. .52½- —
100-lb. fib. dms., less than 1,000 lbs. lb. .55½- —
USP, powd., 100-lb. fib. dms., 1,000 lbs. or more lb. .57½- —
100-lb. fib. dms., less than 1,000 lbs lb. .60½- —
Salol, NF gran., bbls. kgs lb. 1.20 - —
Powdered salol, 25c per lb higher
Salt, rock, paper bgs., c.l., 100 lbs. 1.09 - —
Salt, table vacuum, common, fine, paper bgs. c.l 100 lbs. 1.34 - —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton 28.00 - —
Saltpeter (see Potassium nitrate)
Sandalwood, E. Indian, chips, bgs. lb. .65 - .66
powd. fib. dms. lb. 75 - 76
Sandalwood oil, ens lb. 16.75 -18.00
Sarcosine, tech., tanks, f.o.b., works, frt. equald lb. 1.03 - —
Sardine oil, crude, tanks, Pac. coast, lb. No stocks
Sassafras oil, artif., dms. lb. .43 - —
Nat., dom., dms lb. 1.45 - 2.15
Savory oil, ens lb. 4.75 - —
Schaeffer's salt, paste, dms., frt. alld, 100% basis lb. .85 - —
Powd. bgs., frt. alld. 100% basis, lb. .95 - —
Scopolamine hydrobromide, USP, bots. oz 13.00 - —
Sebacic acid, CP, bgs., c.l., works, lb. .69¼- —
bgs., l.c.l., works lb. .71½- —
Purified, bgs., c.l., works lb. .65½- —
bgs., l.c.l., works lb. .67½- —
Seidlitz mixture, fib. dms., 5,000-lb. lots lb. .30½- —
fib. dms., smaller lots lb. .31 - .32
Selenium, powd., 99½%, dms., dlvd. lb. 7.00 - —
Senega root, bls lb. 3.00 - —
Senna leaves, Alexandria, whole and half, bls lb. .20 - .22
siftings lb. .16 - —
Tinnevelly, No. 1, bls lb. .22 - —
No. 2, bls. lb. .18 - —
No. 3, bls. lb. .14 - —
pods, bls. lb. .28 - —
powd., bbls., bxs. lb. .17 - —
Serpentaria root, bls. lb. 6.50 - —
Sesame oil, USP, dms. lb. .38 - .39
Sesame seed, Colombian, bgs. lb. .15½- —
Lebanese, hulled, bgs. lb. .19 - —
Nicaraguan, hulled, bgs lb. .21½- —
nat., bgs. lb. .14 - —
Salvadorian, nat., bgs lb. .16 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .46 - —
bbls., 1,500-lb. lots lb. .47 - —
kgs., 1,500-lb. lots lb. .48 - —
Bonedry shellac prices for less than 1,500-lb. lots 1c. per lb. higher for all packages.
Shellac, bleached, refd., bgs., 1,500-lb. lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb. lots lb. .58 - —
Shellac, orange, lemon No. 1, bgs., 10-bg. lots lb. .37 - .39
lemon No. 2, bgs., 10-bg. lots, lb. .34 - .37
superfine, bgs., 10-bg. lots lb. .32 - .34
Shellac in 1 to 10-bg. lots 1c. per lb. more.
Shingle stain oil, tar distillate, dms., c.l., works gal. .37 - —
dms., l.c.l., works gal. .48 - —
tanks, works gal. .25 - —
Sienna pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾- .17¾
Raw, paper bgs., c.l., works lb. .06¾- .16¾
paper bgs., l.c.l., works lb. .07 - .17
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 - —
bgs., l.c.l., works, ex whse. ton 45.00 -55.00
Hard-quartz, 99½%, 325 mesh., bgs. c.l., works ton 20.00 - —
bgs. l.c.l., works ton 25.00 - —
99½%, 140 mesh, bgs., c.l., works ton 15.00 - —
bgs., l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 - —
dms., l.c.l., works lb. .22 - .30¼
tanks, works lb. .17 - —
Silver bullion, ingots, cs Troy oz. .91⅞- —
Silver cyanide, bots., 1,000-oz lots, oz. .94¾- —
bots., 500-oz. lots oz. .95¼- —
bots., 100-oz. lots oz. .96¼- —
Silver nitrate, CP, cryst., bots., 1,000 to 3,000-oz., f.o.b. works, oz. .07½- —
bots., 250-500 oz., same basis, oz. .07¾- —
USP granular silver nitrate 4c. per oz. higher.
Silver proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.15 - —
Strong, NF, bots., dms. 1,000-oz. lots oz. 1.10 - —
Snakeroot oil, Canada, ens lb. 40.00 -43.00
Soapbark, crushed, bls lb. .30 - .25
Powd., bls. lb. .35 - .40
Whole, bls. lb. .20 - .25
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 - —
paper bgs., l.c.l., stock pts., 100 lbs. 3.00 - 4.77
bulk, c.l., works 100 lbs. 1.60 - —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 - —
paper bgs., l.c.l., stock pts. 100 lbs. 3.95 - 4.72
bulk, c.l., works 100 lbs. 1.55 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 5.20 - —
liq., 50%, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
50% rayon type, sellers' tanks works, dry basis 100 lbs. 2.90 - 3.00
73% sellers' tanks, works, dry basis 100 lbs. 3.00 - —
liq., 73%, rayon type, sellers' tanks, works, dry basis lb. 3.00 - 3.10
solid, 76%, dms., c.l., works, 100 lbs. 4.80 - —
Soda, sal, conc., bgs. c.l. works, 100 lbs. 2.50 - —
bgs., smaller lots, works 100 lbs 2.80 - —
Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —
NF, 60%, gran., dms. c.l., works, lb. .15½- —
dms., l.c.l., works lb. .17½- —
Sodium alginate, NF, white powd., dom., 300 lbs or more lb. 1.02 - —
Sodium p-aminosalicylate, dms., 100-lb. lots or more frt. adjusted lb. 1.90 - —
Sodium antimoniate, bgs., c.l. dlvd. E lb. .25½- —
bgs., l.c.l., dlvd. E lb. .27 - —
Sodium arsenate, 60% arsenic pentoxide, dms., any quantity, f.o.b. works lb. .40 - —
Sodium arsenite, 90% pink powder, 75% arsenious oxide, dealers, dms., ton lots or more, works lb. .37½- —
dms., less than ton lots, works lb. .18 - .19
Sodium ascorbate, dms., 25-50 kilo dms., f.o.b. works kilo. 10.00 - —
10-kilo dm., same basis kilo. 10.35 - —
5-kilo dm., same basis kilo. 10.75 - —
1-kilo bot., same basis kilo. 11.00 - —
Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l., same basis lb. .38 - —
USP, dms., c.l., t.l. frt. alld lb. .38 - —
cms., ton lots, same basis lb. .43 - —
dms., 1,000-lb. lots, same basis, lb. .45 - —
Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.95 - —
bgs., l.c.l., works 100 lbs. 3.85 - —
USP, powd., bgs., c.l., works, 100 lbs 2.55 - —
bgs., l.c.l., works 100 lbs. 3.45 - —
Sodium bichromate, gran., bgs., c.l. t.l., works lb. .13 - —
bgs., l.c.l., works lb. .13½- .14¾
Sodium bichromate in dms ¾c. per lb. higher
Sodium bifluoride, bbls, c.l., works, frt. equald lb. .19½- —
bbls., l.c.l., same basis lb. .2025- —
Sodium bisulfate, bulk, c.l., works 100 lbs 2.00 - —
dms., c.l., frt. equald 100 lbs 3.00 3.60
dms., l.c.l., frt. equald 100 lbs 3.50 4.10



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1594

HEYDEN NEWPORT®

HEYDEN CHEMICAL DIVISION

Heyden Newport Chemical Corp., 342 Madison Ave., New York 17, New York

FINE HEYDEN CHEMICALS®

Sodium bisulfite, anhyd., bgs., c.l., works	100 lbs	5.00	—
bgs., l.c.l., works	100 lbs	5.45	—
Soln., 35° bbls., c.l. works	100 lbs	1.70	—
bbls., l.c.l., works	100 lbs	2.20	—
Sodium borate (see Borax)			
Sodium borohydride, powd., dms., c.l., works	lb.	19.90	—
dms., l.c.l., works	lb.	33.00-40.00	
Sodium borohydride, stabilized water soln., 12% $NaBH_4$, 100% basis, dms., works	lb.	15.00	—
Pelletized sodium borohydride $1 per lb higher in 1,000-lb lots.			
Sodium bromide, USP, gran., dms., works	lb.	.40	—
Sodium carbonate, cryst., monohydrated (see Soda, sal)			
Sodium carbonate, mononydrated, bgs., c.l., works	100 lbs	3.10	—
bgs., l.c.l., works	100 lbs	3.50	—
Sodium carboxymethyl cellulose (see CMC).			
Sodium chlorate, cryst., 350-lb. dms., c.l. works	lb.	.09	—
dms., l.c.l., works	lb	09½-.10½	
Sodium chlorate in 100-lb dms. only, ¼c. per lb higher			
Sodium chloride, tech. (see Salt)			
Sodium chloride, USP, gran., bgs.	lb	.05	—
Sodium chlorite, tech., dms., c.l., works	lb.	.58	—
dms., 20-dm. lots or more works.	lb.	.66	—
dms., smaller lots, works	lb.	.70	.73
Sodium chloroacetate, tech., dms., c.l., works	lb	.27	—
dms., l.c.l., works	lb	.28	—
Sodium chromate, anhyd., fib. dms., c.l., t.l., works	lb	.14¾-	—
fib. dms., l.c.l., works	lb.	.15¼	.16½
Sodium chromate, tetrahydrate, bgs., c.l., t.l., works	lb.	.1015-	—
bgs., l.c.l.	lb.	.1065-	.1190
Sodium citrate, anhyd. 200-lb. dm., f.o.b. works E	lb.	.62	—
NF VIII, gran. bgs. c.l., same basis	lb.	.26	—
USP XIV gran. bgs. c.l., same basis	lb	.29	—
Sodium citrate, USP powd prices ½c higher.			
Sodium cyanate, dms., 1,000-lb. lots, works	lb.	.85	—
dms., smaller lots, works	lb.	.90	1.10
Sodium cyanide, flake, 96-98%, dms., c.l. or 20,000-lb. lots	lb	.193	—
dms., over 1,000-lb lots	lb.	.203	—
dms., 100-lb to 1,000-lb lots	lb.	.213	—
Gran. sodium cyanide 1c higher			
Sodium cyclamate, 100-lb dm., f.o.b. works	lb.	1.95	—
Sodium diacetate anhyd., 39-41% acetic acid, dms., c.l., works	lb.	.18	—
250-lb. dms., l.c.l. works	lb.	.18¾-	—
Tech., 33-35% acetic acid, dms., l.c.l., works	lb.	.15	—
250-lb. dms., l.c.l., works	lb.	.15¼	—
Sodium dimethyl dithiocarbamate, 40% soln. dms. c.l., t.l., frt. alld., 100% basis	lb	.42	—
dms., l.c.l., l.t.l., same basis	lb	.47	.52
tanks, same basis	lb.	.38	—
Sodium ferrocyanide, bgs., 10-ton lots	lb	.13½-	—
bgs. smaller lots	lb.	.14¾-	—
Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald	lb.	.1390-	—
fib. dms., l.c.l., works, frt equald	lb.	.1465-	—
Sodium formate, bgs., c.l. works.	100 lbs	7.05	—
bgs. l.c.l. ex whse.	100 lbs	8.65	—
Sodium gentisate, 100-lb fib dms.	lb	5.50	—
Sodium gluconate, refd. 250-lb. dm., f.o.b. works E	lb.	.84	—
Tech. bgs. c.l. t.l. same basis	lb.	.34	—
Sodium hydride, 50% soln. in oil, dms. works	lb.	1.25	2.50
25% soln. in oil, dms. 50 lbs or less, f.o.b. shipping point	lb	2.20	—
dms. 50-99 lbs. same basis	lb	1.77	—
dms. 100-999 lbs. same basis	lb	1.20	—
dms., 1,000 lbs or more same basis	lb.	.95	—
Sodium hydrosulfide (see Sodium sulfhydrate)			
Sodium hydrosulfite dms. c.l., frt. alld	lb.	.23½-	—
dms. l.c.l., frt. alld.	lb.	.25¾-	—
Sodium hydroxide NF pellets 100-lb dms. 1 to 100 dm lots.	lb.	.23½-	.28
Sodium hydroxide, tech (see Soda, caustic)			
Sodium hypophosphite, NF, dms., 1,000-lb lots	lb.	.97	—
Sodium hyposulfite (see Sodium thiosulfate).			
Sodium iodide, USP, 300-lb. dm., f.o.b works	lb.	1.98	—
Sodium lauryl sulfate, dms., c.l., dlvd	lb.	.20½-	—
dms., l.t.l., dlvd	lb.	.21½-	—
tanks, dlvd.	lb.	.19½-	—
Sodium lignin sulfonate, bgs., c.l., works	100 lbs	4.25	6.50
l.c.l., bgs., works	100 lbs	4.40	7.00
Sodium metabisulfite (see Sodium bisulfite)			
Sodium metaborate octahydrate, gran., bgs., c.l., works	ton.	210.00	—
bgs., ton lots, ex whse	100 lbs.	8.00	—
bgs., smaller lots, ex whse.	100 lbs	9.25	-11.25
Tetrahydrate, bgs., c.l., works.	ton.	210.00	—
bgs., ton lots, ex whse	100 lbs.	13.93	—
bgs. smaller lots, ex whse.	100 lbs.	15.18	-17.18
Sodium metallic bricks, c.l. works.	lb.	.21	—
Fused, 18,000-lb lots or more, works	lb.	.19½-	—
tanks, works	lb.	.17	—
Sodium metalinate, bbls. frt. alld.	lb.	.62	—
Sodium metaphosphate, bgs., c.l., f.o.b shipping pt	100 lbs.	11.10	—
bgs., l.c.l., same basis	100 lbs.	11.85	—
dms., c.l., same basis	100 lbs.	11.70	—
dms., l.c.l., same basis	100 lbs.	12.45	—
Sodium metasilicate anhyd., bgs. c.l. works	100 lbs	5.70	—
bgs. 5,000-19,900 lb lots works	100 lbs	6.05	—
dms., c.l., works	100 lbs	6.20	—
dms., l.c.l. works	100 lbs	6.55	—
Sodium metasilicate pentahydrate, bgs. c.l. works	100 lbs	4.45	—
bgs. l.c.l. works	100 lbs	4.80	6.75
dms. c.l., works	100 lbs	4.95	—
dms., l.c.l. works	100 lbs	5.30	7.25
Sodium molybdate anhyd., dms., works, frt equald	lb.	.92	.99
Cryst., dms., works, frt. alld	lb.	.74	.76
Sodium monoglutamate (see Monosodium glutamate).			
Sodium monohydrate (see Sodium carbonate, monohydrated)			
Sodium naphthionate, bbls.,	lb.	.70	—
Sodium nitrate, dom., crude, bgs., c.l. works	ton.	48.00	—
bulk, c.l., works	ton	44.00	—
Imp., crude, 100-lb. bgs., c.l., Atl., Gulf, Pac. whse	ton.	48.00	—
bulk, c.l., same basis	ton.	44.00	—
Sodium nitrite, USP, bbls., c.l., works, frt equald	100 lbs	9.00	—
bbls., l.c.l., same basis	100 lbs.	11.00	—
Sodium orthosilicate, conc., dms., c.l., works	100 lbs.	6.70	—
dms. l.c.l., works	100 lbs.	7.05	7.65
Hydrated, flake bbls., c.l., works,	100 lbs.	5.65	—
bbls. l.c.l., works	100 lbs	7.60	7.90
Sodium oxalate, 88%, bgs., works	100 lbs	12.35	—
99%, bgs., works.	100 lbs.	15.40	—
Sodium para-aminobenzoate (see Sodium p-aminobenzoate).			
Sodium para-aminosalicylate (see Sodium p-aminosalicylate).			
Sodium pentachlorophenate, tri-quets, dms. c.l. works, frt. equald	lb.	.26	—
dms., l.c.l., same basis	lb.	.27½-	.34
Pellets, dms., c.l., same basis	lb.	.26	—
dms. c.l., same basis	lb.	.27½-	.34
Powd., dms., c.l. same basis	lb.	.25	—
dms. l.c.l., same basis	lb.	.26½-	.33
Sodium pentobarbital, USP, dms., 100 lbs. or more	lb.	6.00	—
Sodium perborate, NF, tech., bgs., c.l., works	lb.	.18½-	—
bgs., l.c.l., works	lb.	.19	.21
Sodium peroxide, dms., c.l., t.l., dlvd. E. of Miss	lb.	.21½-	—
dms. l.c.l., same basis	lb.	.22	.22½
Sodium phenobarbital, USP 100-lb.		3.75	—
Sodium phenolsulfonate, USP IX, gran., dms	lb.	.52	.53
NF, powd., dms	lb.	.55	.56
Sodium phosphate, dibasic, anhyd., bgs., c.l., frt, equald,	100 lbs.	7.95	—
bgs. l.c.l. same basis	100 lbs.	8.35	9.40
Sodium phosphate, dibasic, cryst., bgs., c.l., t.l., frt. equald.	100 lbs.	4.60	—
bgs. l.c.l. frt equald	100 lbs	5.00	5.75
Dibasic, duohydrate, bgs., c.l., frt. equald	100 lbs.	7.60	—
bgs. l.c.l. same basis	100 lbs.	8.10	—
USP dried, powd. bgs., dms., works	lb.	.19	.20½
Monobasic, anhyd., bgs., c.l., frt. equald	100 lbs.	9.00	—
bgs., l.c.l. same basis	100 lbs	9.40	-10.00
Tribasic, anhyd., bgs., c.l., frt. equald	100 lbs.	9.00	—
bgs., l.c.l. frt. equald	100 lbs	9.45	-10.05
Sodium phosphate in dms. 60c to 80c higher than bgs			
Sodium picramate, tech paste, dms., f.o.b., works, frt equald	lb.	.90	—
Sodium prussiate, yellow (see Sodium ferrocyanide)			
Sodium pyrophosphate acid, bgs., c.l., works, frt. equald.	100 lbs.	11.10	—
bgs., l.c.l., same basis	100 lbs.	11.85	-12.35
Sodium pyrophosphate, ferric, dms., c.l., t.l., works	lb.	.36	—
dms. l.c.l., works	lb.	.37	.39
Tetrabasic, anhyd., bgs., c.l., works, frt. equald	100 lbs.	7.81	—
bgs., l.c.l. same basis	100 lbs.	9.21	9.71
Sodium salicylate, USP dms., 1,000-lbs or more	lb.	.78½-	—
dms., less than 1,000 lbs	dms.lb.	.81½-	—
Sodium sesquicarbonate, bgs., c.l., works	100 lbs.	2.35	—
bgs., l.c.l., dlvd. zone 1	100 lbs.	4.10	4.35
dlvd. zone 2	100 lbs	4.35	4.60
dlvd. zone 3	100 lbs.	4.75	4.90
dlvd. zone 4	100 lbs.	5.35	5.60

Sales zones are: (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La., and Miss. south of 31°; Tex. E. of 100°; S. of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport) Minn. Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98° N. D., Okla., S. D. Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

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Sodium sesquisilicate, anhyd., bgs., c.l., t.l., works 100 lbs 5.70 - —
dms., c.l., t.l., works 100 lbs 6.20 - —
Hydrated, bgs., c.l., works 100 lbs. 5.00 - —
bgs., 6,000-19,900 lb. lots, works 100 lbs 5.35 - —
dms., c.l., works 100 lbs 5.50 - —
dms., 6,000-19,900 lb. lots, works. 100 lbs. 5.83 - —

Sodium silicate, liq., 40° Be., 1:3.2, turbid, dms., c.l., works 100 lbs. 1.65 - —
dms., t.c.l., works 100 lbs 1.90 2.40
tanks, works 100 lbs 1.20 - —
47° Be., 1:2.9, turbid, dms., c.l., works 100 lbs. 2.25 - —
dms., t.c.l., works 100 lbs 2.60 3.45
tanks, works 100 lbs 1.90 - —
52° Be., 1:2.4, turbid, dms., c.l., works 100 lbs. 2.65 - —
dms., t.c.l., works 100 lbs 3.00 3.50
tanks, works 100 lbs 2.30 - —
Solid, 1:3.2, bgs., works ton 67.50 - —

Sodium silicofluoride, bgs., c.l., works lb. .065 - —
bgs., t.c.l., works lb. .725 - —
Sodium silicofluoride in dms. 0.4c. per lb higher

Sodium stannate, dms., works, frt. alld. E lb. .638 - .697

Sodium sulfa drugs (see Sulfa name).

Sodium sulfanilate, bbls., works lb. .22 - —

Sodium sulfate, NF VII, dried, powd., dms lb. .22½- —
Tech., anhyd., bgs., c.l., dlvd. E. ton 54.00 - —
Tech., detergent, rayon grade, bgs., c.l., works ton 36.00 - —
bulk, c.l., works ton 32.00 - —
USP, cryst., fib dms. lb. .17½- .18

Sodium sulfhydrate, flake, 70-72%, dms., c.l., works frt equald. lb. .07¼- —
dms., t.c.l., same basis lb. .08¼- —
Liq., 40-44%, tanks, works, 100% basis ton. 130.00 - —

Sodium sulfide, flake, dms., c.l., works, E., frt. equald lb. .06 - —
dms., t.c.l., same basis lb. .07 - —
Fused, bbls., c.l., works, E., frt. equald lb. .05½- —
bbls., t.c.l., same basis lb. .06½- —

Sodium sulfite, anhyd., powd., bgs., c.l., works 100 lbs. 7.55 - —
bgs., t.c.l., same basis 100 lbs. 7.95 - —
Tech., anhyd., bgs., c.l., works. 100 lbs. 3.50 - —
bgs., t.l., same basis 100 lbs. 4.00 - —
Sodium sulfocyanide, CP (see Sodium thiocyanate)
Sodium tetraborate (see Borax)
Sodium tetrasulfide, liq., 40% dms., c.l., works, frt. equald lb. .04½- —
dms., t.c.l., same basis lb. .05½- —

Sodium thiocyanate, CP, dms lb. .55 - .63
Tech. anhyd. dms., 1 ton lots or more, works lb. .317 - —
dms. less than ton lots, works lb. .337 - —

Sodium thiosulfate, NF, cryst, bbls. lb. .13½- —
Tech., anhyd., 100-lb. bgs., c.l., t.l., frt. equald 100 lbs. 7.75 - —
100-lb. bgs., t.c.l., t.l.l., frt. equald 100 lbs. 8.15 - —
Tech., anhyd., photo grade, 64-lb. bgs., c.l., t.l., frt. equald, lb. .0775- —
64-lb. bgs., t.c.l., t.l.l., frt. equald lb. .0813- —
Tech., pentahydrate, photo grade, 100-lb. bgs., c.l., t.l., frt. equald 100 lbs. 4.95 - —
100-lb. bgs., t.c.l., t.l.l., frt. equald 100 lbs. 5.20 - —

Sodium titanate, ctns., c.l., works. lb. .14¼- —
ctns., 5-ton lots, works lb. .14½- —
ctns., 1-ton or less, works lb. .14¾- —

Sodium trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E. lb. .35 - —
50-lb. dms., c.l., frt. alld. E lb. .35½- —
10-lb. cns., c.l., frt. alld. E lb. .42 - —
Prices on Sodium trichloroacetate W of the Rockies are 1¾c per pound higher.

Sodium tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 8.16 - —
bgs., t.c.l., same basis 100 lbs. 8.56 - 8.66

Sodium trisilicate, powd. 1:3.2 bgs., c.l., works 100 lbs. 8.95 - —
bgs., t.c.l., works 100 lbs 9.70 -13.13
dms., c.l., works 100 lbs. 9.45 - —
dms., t.c.l., works 100 lbs. 10.20 -10.60

Sodium tungstate, tech., kgs dlvd. E lb. 1.09 - —

Sodium-ammonium phosphate, purif., cryst., dms., works lb. .52 - —

Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).

Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
dms., t.c.l., same basis lb. .21½- —

Sodium-zirconyl sulfate, fib, dms., 1,000-lb lots or more works lb. .28 - —
fib., dms., smaller lots, same basis lb. .30 - —

Solvent naphtha, coaltar, high-flash, tanks, frt equald gal. .30 - .35½

Solvent naphtha, petroleum, straight aromatic, 310°F-360°F b.r., 14°-16°C m.a.p., tankcars, New Jersey and New York gal. .31 - —
Houston, Texas gal. .29 - —
355°F-420°F b.r., 17°-18°C. m.a.p., tankcars, New Jersey and New York gal. .32 - —
Houston, Texas gal. .30 - —

Solvent naphtha, petroleum, partial aromatic, 211°F-265°F b.r., 31°C. m.a.p., tankcars New Jersey and New York gal. .235 - —
286°F-340°F b.r., 22°C m.a.p., tankcars New Jersey and New York gal. .275 - —
319°F-380°F b.r., 27°C m.a.p., tankcars, New Jersey and New York gal. .285 - —
322°F-395°F b.r., 28°C. m.a.p., tankcars, New Jersey and New York gal. .295 - —

Sorbitan monostearate, tib. dms., 20,000-lb. lots, works lb. .33 - —
fib dms., 10,000 to 20,000-lb. lots, works lb. .35 - —
fib. dms., smaller lots, works lb. .38 - .40

Sorbitan tristearate, fib dms., 20,000-lb lots, works lb. .34 - —
fib dms., 10,000 to 20,000-lb. lots, works lb. .36 - —
fib dms., smaller lots, works lb. .39 - .41

Sorbitol, NF, reg., 70% aqueous, dms., c.l., works lb. .18 - —
dms., t.c.l., works lb. .19 - —
tanks, works lb. .16¼- —

Cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
dms., 1 to 5-ton lots, works. lb. .25 - .26

Powd., dms., c.l., works lb. .36- —
dms., 1 to 5-ton tots, works. lb. .38 - .39

Soln., coml., aqueous, dms., c.l., works lb. .24¼- —
dms., ton lots, works lb. .25 - —
dms., smaller tots, works lb. .25¼- —
tanks, works lb. .23¼- —

Soya protein, chemically isolated, old process, bgs., c.l., works. lb. .23 - —
bgs., t.c.l., works lb. .23¼- .23½
Chemically isolated, new process, bgs., c.l., works lb. .20 - —
bgs., t.c.l., works lb. .20¼- .20½

Soybean meal, 44%, bulk, unrestricted, Decatur ton. 56.00 - —

Soybean oil, crude, tanks, Decatur. lb. .07⅜- —
Foots, soapstock, acid 95%, tanks, N. Y. lb. .05¼- —
Refd., alkali, dms. lb. .1203- .1228
tanks lb. .1003- —
clarified, dms. lb. .1158- —
tanks lb. .0958- —
salad, dms. lb. .1165- .1190
tanks lb. .0965- —

Soybean oil acids, dbl. dist., dms., lb. .18 - .20½
tanks lb. .15½- —
S. D., dms lb. .16¾- .19¼
tanks lb. .14¼- —

Sparteine sulfate, cns., 100 oz. or more oz. .80 - —

Spearmint leaves, dom., bls. lb 75 - —
Spearmint oil, NF, dms lb. 9.00 -11.25

Sperm oil, bleached, winter, 45° dms lb. .1473- .1575
tanks lb. .1275- —
Nat., winter, 45°, dms. lb. .1375- —
tanks lb. .1175- —

Spermaceti wax, blocks, cs. lb. .31 - .33
Cakes, cs. lb. .32 - .34

Spruce oil cns., dms. lb 2.10 3.55
Squill, white, bls lb. 16 .18
Powd., bbls., bxs. lb. .17 - .20

St. John's bread, edible, bls. lb. .17 - —

Stannic chloride, anhyd., dms., works lb. .808 - .830

Stannic oxide, dms., dlvd lb. 1.07½- 1.08½

Stannous chloride, anhyd. dms., works lb. 1.001 - 1.256
Hydrous, cryst., dms., works lb. .86¼- .87½
Stannous sulfate, dms., works lb. 1.056 - —

Star root (see Helonias root).
Stargrass root (see Aletris root).

Stavesacre seed, bgs. lb. .60 - .61
Stearic acid, dbl., pressed bgs. lb. .15¾- .18¼
Single-pressed, bgs. lb. .15¼- .17¾
Triple-pressed, bgs. lb. .17½- .20

Stearine, oleo (see Oleostearine).

Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York gal. .18 - —
tanks, Houston gal. .1475- —
tanks, group 3 gal. .12875- —

Stramonium leaves, bgs. lb. .13 - —

Streptomycin hydrochloride, bulk, gram. .04 - .041
Streptomycin sulfate, bulk gram. .04 - .041

Strontium bromide, NF, cryst., 100-lb. dm., f.o.b. E lb. .92 - —

Strontium carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
dms., 1-ton lots, works lb. .37 - —
Tech., dms., works lb. .19 - —

Strontium chromate fib. dms., dlvd. lb. .48 - —

Strontium iodide, jars, 25-lb. lots. lb 3.57 - —

Strontium nitrate, bgs., c.l., works. 100 lbs 11.00 - —
bgs., t.c.l., works 100 lbs. 12.00 - —
Strontium salicylate, NF, dms. lb 1.88 - —

Strontium sulfate, air floated, 99% 325 mesh, bgs., works ton 56.70 -66.15

Strophanthin G (see Ouabain, USP)
Strophanthin K, bots. oz. 25.00 -25.50
Strophanthus seed, Kombi, biologically tested, bgs lb 3.50 3.75
Styrax gum, USP cs lb. 4.50 5.50

Styrene monomer, polymer grade, 99.6%, dms. c.l. frt alld. lb 17 —
dms., t.c.l., same basis lb 19 —
tanks, same basis lb 14½ —
Tech., 99.2%, dms., c.l. lb. .1467- —
dms., t.c.l., same basis lb. .1667- —
tanks, bulk, same basis lb. .1217- —

Above prices are escalated for each calendar quarter on the basis of cost of crude oil at the well, cost of petroleum refining labor and prices in the three major sections of the Wholesale Commodity Price Index

Styrolyl acetate, bots. lb 1.25 1.45

Succinic acid., purif., cryst., dms., t.l., frt. alld lb. .62 - —
dms., l.t.l., same basis lb. .63 - .75
Succinic anhydride, dms., c.l., t.l., dlvd lb. .51 - —
dms., l.c.l., same basis lb. .52 - —
Sucrose, refd. white, bgs., refy E. lb. .0920- —
Sucrose acetate isobutyrate, 90%, dms., t.l., dlvd lb. .33½- —
dms., l.t.l., same basis lb. .35 - —
tanks, same basis lb. .31 - —
100%, t.l., dms., dlvd. lb. .35½- —
l.t.l., dms., same basis lb. .37 - —

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Ammonium Chloride • Methyl Chloride • Ammonium Bicarbonate • Vinyl Chloride • Methylene Chloride • Cleaning Compounds • Hydrogen Peroxide
Aluminum Chloride • Mutual® Chromium Chemicals • Snowflake® Crystals
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☐ Data on how these products can help my operation, described in attached letter.

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Company _____
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Address _____
City _____ Zone _____ State _____

Sucrose octa-acetate, denaturing grade, 100-200-lb lots bgs. f.o.b. works lb 1.00 - —

Sugar (see Sucrose)

Sugar cane wax, dom., refd., slabs, 80-lb ctns works lb .60 .65
80-lb ctns. spot lb .65 .75

Sulfabenzamide, dms kilo 8.80 9.90

Sulfabenzamide sodium, dms kilo 9.00 10.10

Sulfacetamide USP, fib. dms kilo 6.61 6.83

Sulfacetamide sodium, USP, fib. dms kilo 8.15 9.25

Sulfadiazine USP, microcrystals, dms kilo 23.35 24.45
USP, powd., dms kilo 22.00 23.10

Sulfadiazine sodium, USP, dms kilo 24.80 25.90

Sulfaguanidine, NF X, dms kilo 5.50 6.60
dms kilo 23.50 24.60

Sulfamerazine sodium, USP, powd., dms kilo 24.80 25.90

Sulfamethazine USP XV, microcrystals, dms kilo 19.65 20.75
USP XV, powd., dms kilo 18.75 19.85

Sulfamic acid, cryst., dms., c.l., t.l., works 100 lbs 16.00 —
dms., l.c.l., t.l.l., works 100 lbs 17.50 -18.50

Granular, dms., c.l., t.l., works 100 lbs 14.75 —
dms., l.c.l., t.l.l., works 100 lbs 16.25 - 17.25

Sulfanilamide, NF, reg., 1,000 lb., frt. equald lb. 1.50 - —
NF, f.b., dm., frt. equald lb. 1.55 - —

Sulfanilamide quinoxaline, veterinary, dms kilo 16.28 - —

Sulfanilic acid, tech., dms., c.l., frt. alld lb .21 - —
dms., l.c.l., frt. alld lb .23 - —

Sulfapyridine USP XV, powd., bots, tins kilo 15.45 -16.55

Sulfapyridine sodium, monohydrate 16.55 -17.65

Sulfathiazole, NF X, microcrystals, dms 6.25 - 6.90
NF X, powd., dms. kilo. 5.50 - 6.15

Sulfathiazole sodium, NF X, dms., 1,000 lb lots or more lb 2.35 —

Sulfur, comi., flour, bgs., mines 100 lbs 2.35 - —
bbls., mines 100 lbs 3.30 - —
lump, bgs., mines 100 lbs 2.25 - —
bbls., mines 100 lbs 2.80 - —

Crude, dom., bright, bulk, f.o.b. cars, mines, long-ton 23.50 - —

Crude, export, f.o.b. vessels, Gulf ports, long-ton 25.00 - —
US and Canada, f.o.b. vessels Gulf ports long ton 25.00 - —

Domestic dark sulfur prices are $1 per long ton lower

Sulfur, crude, imp., Mexican, bulk, filtered f.o.b. vessel Coatzacoalcos long ton 24.00 - —

Mexican dark sulfur price is $1 per long ton lower

Sulfur, refd., flowers, NF, bgs., mines 100 lbs 5.65 - —
bbls., mines 100 lbs 7.00 - —
flour, light, bgs., mines 100 lbs. 5.25 - —
bbls., mines 100 lbs 6.25 - —
lump, bgs., mines 100 lbs 4.95 - —
rolls, bgs., mines 100 lbs 5.50 - —
bbls., mines 100 lbs 6.25 - —
salt block, bgs., mines 100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs 4.70 - —

Sulfur, rubbermakers, comi., rcg., bgs., mines 100 lbs 2.45 - —
bbls., mines 100 lbs 3.70 - —
98-100% passing through 325 mesh bgs., mines 100 lbs 2.55 - —
bbls., mines 100 lbs 3.80 - —
refd., bgs., mines 100 lbs 4.90 - —
bbls., mines 100 lbs 6.05 - —
treated 2.5% mineral oil, bgs., mines 100 lbs 2.75 - —
bbls., mines 100 lbs 4.00 - —

Sulfur dichloride, ret., dms., c.l., works, frt. equald lb 04½ —
ret., dms., c.l., same basis lb 05¼ —
tanks, same basis lb .04 —

Sulfur dioxide, liq., comi., cyls., works, frt. equald lb .10 .12
multi-unit cars, works lb .0535- —
tanks, works lb. .045 —

Sulfur dioxide, refrigeration, cyls., dlvd lb. .33 - —

Sulfur monochloride, 55-gal., non-ret., dms., c.l., frt. equald lb .04½- —
dms., l.c.l., same basis lb 05¼ —
tanks, same basis lb .04 —

Sulfuric acid, 60° Be., cbys., c.l., works 100 lbs 2.00 - —
cbys., l.c.l., works 100 lbs 2.30 - —
tanks, works ton 18.60 - —
66° Be., cbys., c.l., works 100 lbs 2.25 —
cbys., l.c.l., works 100 lbs 2.55 3.35
tanks, works ton 22.35 —
98%, tanks, works ton 23.50 - —
95% tanks, works ton 23.70 - —
100% tanks, works ton 23.95 - —
CP, NF, consumers, cbys., c.l., frt. equald lb. .12¾ —
consumers' cbys., l.c.l., same basis lb. .14¼- .14¾
5-pt. bots., extra cs., c.l., works, frt. alld lb 16¼ —
5-pt. bots., extra cs., l.c.l., same basis lb 17¾ .18¾

Sulfuric acid, fuming (oleum) 20% tanks, works ton 25.00 - —
40% tanks, works ton 29.00 - —
65% tanks, works ton 39.50 - —

Superphosphate, run of pile, under 22% a.p.a., pulv., bulk., c.l., Baltimore, unit ton .90 .93
bulk, c.l., Carteret, N. J., unit ton .90 .93
bulk, f.o.b. vessel, unit ton 1.02 —

Superphosphate, triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla., unit ton .98 —

Sweet birch oil, USP, northern, cns lb 4.00 9.50
USP, southern, cns lb 2.00 3.05

T

2,4,5-T, dms., c.l., works, frt. equald lb 1.18 —
dms., l.c.l., same basis lb 1.25 —

2,4-D, isopropyl ester, dms., c.l., works, frt. equald lb 1.24 - —
dms., l.c.l., works lb 1.29 - —

Talc, dom., fibrous, grd., bgs., c.l., works, New York ton 28.00 - —
bgs., l.c.l., works ton 31.00 -36.00
fibrous, 99.5%, 325 mesh, bgs., c.l., works, New York ton 31.00 - —
bgs., l.c.l., works ton 34.00 —
fibrous, 99.9%, 400 mesh, micronized bgs., c.l., works ton 38.00 - —
625 mesh micronized, bgs., c.l., works ton 80.00 - —
ord., Calif., grd., bgs., c.l., works ton 34.00 -39.50
Vermont, off-color, grd., bgs., c.l., works ton 19.40 - —
bgs., l.c.l., works ton 37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton 26.00 -35.00

Tall oil, crude, dms., c.l., works lb. .04½- .04¾
tanks, works lb. .02¾- .03
Dist., depending on grade, dms., c.l., works lb. .07¾- .10
dms., l.c.l., works lb. .08 - .10¼
tanks, works lb. .05¾- .08

Refd., depending upon grade, dms., c.l., works lb. .07¼- .09¼
dms., l.c.l., works lb. .07½- .09¾
tanks, works lb. .05¼- .07¼

Tall oil acids, dms., c.l., works lb. .08¼ .11¾
dms., l.c.l. lb. .08¾- .12¼
tanks, works lb. .06¼- .09¾

Tallow, edible, tanks, dlvd. lb. .08¼- —

Inedible, fancy, bleachable, tanks, lb. .06¼- —
fancy, guaranteed, dms., f.a.s. lb. .07⅝- —
bulk, f.o.b. lb. .06⅝- —
No. 1, tanks, dlvd. lb. .05⅝- —
prime, tanks, dlvd. lb. .03 - —
special tanks, dlvd. lb. .05¾- —
sulfonated, 25%, bbls., l.c.l. lb. .06½- .08¾
50%, bbls., l.c.l. lb. .10½- .11

Tallow acids, dist., dms lb. .13¼- .15¾
tanks lb. .10¾- —
Hydrogenated, dms. lb. .14¾- .17¼

Tallow oil acidless, dms., c.l. lb. 13½- Nom
dms., l.c.l. lb. 14½ 16

Tangerine oil, Florida, dms lb. 3.75 - 4.75

Tankage, animal, feeding 9-11% ammonia, New York bulk, unit-ton 5.25 - 5.75

Tannic acid, NF, fluffy, bbls, 1,000-lb lots lb 2.05 —
bbls., smaller lots lb 2.06 2.07
NF, powd., bbls., 1,000-lb lots lb 1.95 - —
bbls., smaller lots lb 1.96 1.99
Tech., dms lb 1.05 —

Tansy oil, dms lb. 6.60 - 8.00

Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .53½- —
dms., l.c.l., same basis gal. .55½- —
tanks, same basis gal. 43½- —
25-28% dms., c.l., same basis gal. 60 - —
dms., l.c.l., same basis gal. 62 - —
tanks, same basis gal. 50 - —
50-53%, dms., c.l., same basis gal. .75 - —
dms., l.c.l., same basis gal. .77 - —
tanks, same basis gal. .65 - —

Tar, coal (see Coaltar)

Tartar emetic (see Antimony potassium tartrate)

Tartaric acid, NF, 100-lb bgs., c.l., frt. equald lb. .41 - —
bgs., 10,000 lbs., 1 shipt., same basis lb. .43 - —
bgs., smaller lots, same basis lb. .47 - —

Terpine hydrate, NF, cryst., powd., 100-lb fib. dms. lb. 70 - —
Terpineol, extra, dms lb. .50 - .60
Prime, dms lb. .40 - .50

Terpinyl acetate, extra, cns., dms. lb 64 75
Prime, dms. lb 53 .56

Terpinyl propionate, dms. lb 1.75 3.00

Terra alba (see Gypsum).

Testosterone, USP, bots. gram. No prices.

Testosterone proprionate, USP, bots. gram. No prices.

Tetrachloroethane, dms., works lb 14½ —

Tetrasodium pyrophosphate (see Sodium pyrophosphate)

Tetrachloroethylene, tech. (see Perchloroethylene)

Tetrachloroethylene, USP, 55-gal., dms., c.l., t.l., works lb. 20½- —
dms., l.c.l., works lb. 22 .23½

Tetraethyl orthosilicate, dms., c.l., dlvd E lb. .60 - —
dms., l.c.l., dlvd E lb. .61½- —

Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald lb. 75 - —

Tetraethylenepentamine, dms., c.l., dlvd E lb. .53½- —
dms., l.c.l., dlvd E lb. .55 - —
tanks, dlvd E lb. .51 - —

Tetraethylthiuram disulfide, tech., dms., frt. alld lb 1.04 - —

Tetrahydrofuran, dms., c.l., t.l., works lb. 36½- —
dms., l.c.l., or t.l.l., works lb. .37 - —
tanks, works lb. .35 - —

Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .31½- —
dms., l.c.l., Memphis, Tenn. lb. .32½- —
dms., c.l., t.l., Newark, N.J. lb. .33½- —
dms., l.c.l., Newark, N.J. lb. .34½- —
tanks, dlvd E of Denver lb. .31 - —
tanks, dlvd W of Denver lb. .32 - —

Tetrahydrophthalic anhydride, dms., c.l., t.l., frt. alld. E lb. .39 - —
l.c.l., l.t.l., same basis lb. .41 - —

Tetrapotassium phosphate (see potassium phosphate)

Thallium metal, dlvd lb 7.50 -10.00

Thallium sulfate, 99%, bots., dlvd lb 5.00 -10.00

Theobromine, NF, fib. dms., 100-lbs., f.o.b., works lb. 5.50 - —

Theobromine and sodium acetate, USP, fib. dms., 500-lbs., works lb. 6.45 - —

Theobromine sodio-salicylate, NF, fib. cms., 500-lbs., works lo. 5.45 - —

Theophyline, USP, anhyd., 100-lb dms., frt. alld lb. 3.65 - —

Thiamine hydrochloride, USP, fib. dms., frt. alld kilo. 36.00 - —
USP, ampule grade, fib. dms., frt. alld kilo. 38.00 - —

Thiamine mononitrate, USP, fib. dms., frt. alld kilo. 36.00 - —

Thiocarbanilide, dms., ton lots lb 72 - —
dms., less ton lots lb 74 - —

Thiodiphenylamine (see Phenothiazine).

Thioflavin green toner, brilliant, molybdated, PMA, bgs., works lb 5.20 - —
Tungstated, PTMA, kgs., works lb 6.20 - —

Thioglycolic acid, refd., 55 gal. dms., ton lots, 100% basis lb. 1.15 - —

Thiosalicylic acid, 80%, dms., 1,000-lb., lots, works lb 4.00 - —

Thiourea, tech., bgs., t.l., frt. alld. lb. .30 - —
bgs., ton lots, same basis lb. .32 - —
bgs., less than ton lots, same basis lb. .33 - —

Thorium nitrate, purif., fib. dms., 100 lb lots or more, works lb 3.50 - —

dl-Threonine, bots., 1-kilo lots kilo 27.00 - —

Thyme, leaves, French, bgs lb 29 - —
Spanish, bgs. lb 14 - —

Thyme oil, NF, red, cns., dms lb. 1.90 - 2.25
NF, white, cns. lb. 2.20 - 2.60
Tech., white, cns lb 40 1.85

Thymol, fib. dms., 25-lbs., f.o.b. works lb. 3.06 - —

Thymol iodide, NF, dms., 100-lbs., f.o.b. works lb. 7.40 - —

Timbo root (see Cube root)

Tin chloride, (see Stannous chloride, anhyd.)

Tin crystals (see Stannous chloride, hydrous)

Tin, metal (Straits) lb. 1.01 - —
Tin oxide (see Stannic oxide)
Tin sulfate (see Stannous sulfate).
Tin tetrachloride, anhyd. (see Stannic chloride, anhyd.)

Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd lb. .25½- —
bgs., l.c.l., dlvd lb. .26½- —
reg., bgs., c.l., dlvd lb. .25½- —
bgs., l.c.l., dlvd lb. .26½- —
metallurgical, nat., bgs., c.l., f.o.b. Jacksonville, Fla. ton. 180.00 - —
bgs., 5-ton lots, Niagara Falls, N.Y. ton. 205.00 - —
bgs., ton lots same basis ton. 215.00 - —

Milled metallurgical titanium dioxide $7.50 per ton higher

Titanium dioxide, rutile, non-chalking, bgs., c.l., dlvd, E lb. .27½- —
bgs., l.c.l., dlvd, E lb. .28½- —

Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd lb. .09⅜- —
bgs., l.c.l., works lb. .09⅞- —
50% Ti O_2, high-tinting, dms., c.l. lb. .14⅜- —
dms., l.c.l. lb. .14⅞- —

Titanium hydride, powd., dms., works lb. 8.10 9.00

Titanium tetrachloride, tech., dms., c.l., works lb. 26 - —
dms., l.c.l., works lb. 27½- .29
tanks, works lb. 20 - —

Tobias acid, dms., c.l., t.l. lb. 78 - —
dms., l.c.l. lb. .81 - —

d-a-Tocopherols, NF, mixer, conc., pure basis, bots kilo. 67.00 - —

d-a-Tocopheryl acetate, NF, conc., pure basis, bots kilo. 122.00 - —

d-a-Tocopheryl acid succinate, cryst., bots kilo. 109.00 - —

dl-a-Tocopherol, bots kilo. 99.00 - —

d-a-Tocopheryl acetate, bots kilo. 90.00 —
25% dry, powd., bots kilo. 22.50 -24.00
33⅓% dry, powd., bots. kilo. 30.00 -31.50

o-Tolidine base, dry, kgs., 100% basis lb 1.55 - —
Paste, kgs., 100% basis lb 1.50 - —

TOLUOL

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine hydrochloride, paste, kgs., 100% basis lb 1.50 —
Tolu balsam, cns. lb. 3.50 - 3.75
Toluene, coaltar, indust. or nitration, tanks, dlvd E of ... gal. .25 - —
Toluene, petroleum, in ... tanks, dlvd E of Rockies gal. .25 - .32
p-Toluenesulfonamide, powd., dms., t.l., works lb. .60 - —
dms., t.t.l., same basis lb. .63 - —

Toluenesulfonic acid, 55-gal. dms., t.l., frt. alld lb. .16 - —
1,000-lb. or more, same basis lb. .18 - —
less than 1,000-lb., same basis lb. .23 - —
tanks, same basis lb. .14 - —
Toluenesulfonic acid in 100-lb. drums, 2c. per lb. more.

p-Toluenesulfonic acid monohydrate, dms., c.l. or t.l. lb. .90 - —
dms., 125 lbs. to t.l. lb 1.00 - —

m-Toluidine, dms., c.l., works, frt. alld lb. .83 - —
dms., l.c.l., same basis lb. .84 - —
tanks, same basis lb. .82 - —

o-Toluidine, dms., c.l., works, frt. alld lb. .30 - —
dms., l.c.l., same basis lb. .31 - —
tanks, same basis lb. .28 - —

p-Toluidine, tech., flake, dms., frt. alld lb. .50 - —
Cast, dms., frt. alld lb. .45 - —

p-Toluidine-m-sulfonic acid, dms., works lb. .92 - 1.04

Toluidine red toner, deep shades, kgs., works lb. 1.70 - —
Light shades, kgs., works lb. 1.70 - —

2,4-Tolylenediamine, cryst., fib. dms., l.c.l., frt. alld lb 1.10 - —
dms., 2c. per lb. more.

Tonka beans, Angostura, cks. lb. 1.50 - —
Brazilian, Surinam, cs. lb. 1.00 - —

Totaquine, 100-oz. lots, cns. oz. .42 - —

Toluene, dms., c.l., t.l., works lb. .22 - —
dms., l.c.l., t.l.l., works lb. .28 - —

Trag canth gum, No. 1, ribbons, cs lb. 3.60 - 3.75
No. 2, cs lb. 3.40 - 3.60
No. 3, cs lb. 3.15 - 3.25
USP, powd., bbls. lb. 1.05 - 1.15

Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
dms., l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —

Triallylamine, dms., c.l., dlvd. lb. .985 - —
dms., l.c.l., dlvd. lb. .995 - —
tanks, dlvd lb. .96 - —

Tributyl citrate, tech., non-ret. dms., c.l., frt. alld E of Denver lb. .42½- —
non-ret. dms., l.c.l., frt. alld, E. of Denver lb. .43½- —
tanks, frt. alld E of Denver lb. .40 - —

Tributyl phosphate, dms., c.l., works lb. .52½- —
dms., l.c.l., same basis lb. .53½- —
tanks, same basis lb. .50 - —

Triethylamine, dms., c.l., works lb. .67½- —
dms., l.c.l., same basis lb. .69 - —
tanks, same basis lb. .65 - —

Tributyrin, dms., l.c.l., dlvd. lb. .69 - —

Trichloroacetic acid, bots lb. 2.00 - 2.50

Trichlorobenzene, dms., c.l., frt. alld E lb. .15 - —
dms., l.c.l., frt. alld E lb. .16 - —
tanks, frt. alld E lb. 13¼- —

Trichlorobenzene prices in the West 1¾c. higher

1,1,1-Trichloroethane, dms., c.l., dlvd. lb. .13¼- —
dms., l.c.l., dlvd. lb. .13¼- —
tanks, dlvd. lb. .12¼- —

1,1,2-Trichloroethane, dms., c.l., works lb. .13½- —
dms., l.c.l., dlvd E. lb. .14¼- —
tanks, works lb. .11½- —

Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .13 - —
dms., l.c.l., frt. alld. lb. .15 - .16¼
tanks, works, frt. equald lb. .12 - —

Trichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —

Trichlorophenoxyacetic acid (see 2,4,5-T).

Tricholine citrate, 65% soln., ret. chys., works, frt. adjusted. lb. 1.40 - 1.45

Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
dms., l.c.l., dlvd. lb. .36 - —
tanks, dlvd lb. .32½- —

Tricresyl phosphate, petroleum, dms., c.l., dlvd lb. .34½- —
dms., l.c.l., dlvd. lb. .35½- —
tanks, dlvd. lb. .32½- —

Tridecyl alcohol, mixed isomers, dms., c.l., dlvd E lb. .26½- —
dms., l.c.l., dlvd. E lb. .28 - —
tanks, dlvd E lb. .24 - —

Triethanolamine, dms., c.l., dlvd E, dms., l.c.l., same basis lb. .24½- —
tanks, same basis lb. .22 - —

Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld lb. .25½- —
dms., l.t.l., frt. alld. lb. .26½- —
tanks, frt. alld lb. .24½- —

Triethylamine, dms., c.l., dlvd E, of Denver lb. .50 - —
dms., l.c.l., same basis lb. .51½- —
tanks, same basis lb. .47½- —

Triethyl citrate, refd., tech., non-ret., dms., c.l., frt. alld E, of Denver lb. .46¼- —
non-ret., dms., l.c.l., frt. alld, E. of Denver lb. .47¼- —
tanks, frt. alld E. of Denver lb. .43¾- —

Triethyl phosphate, dms., c.l., dlvd. lb. .40½- —
dms., l.c.l., dlvd. lb. 41½- —
tanks, dlvd lb. .38 - —

Triethylene glycol, dms., c.l., dlvd, E lb. .21 —
dms., l.c.l., dlvd, E lb. .22½- —
tanks, same basis lb. .18½- —

Triethylenetetramine, dms., c.l., dlvd, E lb. .51½- —
dms., l.c.l., dlvd E. lb. .53 - —
tanks, dlvd E lb 49 - —

Triisobutylene, tanks, dlvd lb. .08 - —

Triisopropanolamine, dms., c.l., dlvd, E lb. .23¼- —
dms., l.c.l., dlvd E. lb. .24¾- —
tanks, dlvd E lb. .20¾- —

Trimethylamine, anhyd., cyls., l.c.l., frt. equald, 100% basis lb. .30 .305
tanks, frt. equald, 100% basis lb. .26 —
25-40% soln., dms., c.l., frt. equald, 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, 100% basis, frt. equald lb. .26 - —

Trimethylolpropane, dms., c.l., t.l., dlvd E lb. .35 - —
dms., l.c.l., l.t.l., same basis lb. .36 - —

Trioxane, pure, dms., c.l., t.l., works lb. .50 —
dms., l.c.l., works lb. .51½- —

Tripentaerythritol, bgs., c.l., t.l., dlvd, E lb. .40 - —
bgs., l.c.l., l.t.l., dlvd E lb. .41 - —

Triphenyl phosphate, bbls., c.l., frt. equald lb. 41½- —
bbls., l.c.l., frt equald lb. 42½- —

Triphenylguanidine, bbls., works lb. 90 —

Tripropylene, dms., c.l., dlvd, E gal. .44 - —
dms., l.c.l., same basis gal. .54 - —
tanks, same basis gal. .28 - —

Tripropylene glycol, dms., c.l., t.l., frt. alld, E lb. .20½- —
dms., l.c.l., l.t.l., frt. alld, E lb. .22 - —
tankcars, and compartmented tankcars, frt. alld, E lb. .17½- —

Tripropylene glycol, tankwagon and compartmented tankwagons, 1,000 gals. min., frt. alld, E. lb. .18 - —

Tripropylene glycol prices 1c per lb higher in West.

Trisodium phosphate (see Sodium phosphate tribasic)

dl-Tryptophane, fib., dms., works lb 55.00 —

Tung oil, dms., c.l., New York lb. .23¾- —
dms., l.c.l., New York lb. .24 - .24½
tanks, imported, N. Y. lb. .21¾- .22
tanks, domestic, mills lb. .21⅝- .21½

Tungsten metal, powd., 2.0-2.5 microns, dms., works lb. 4.25 - —

Tungstic acid, tech., dms., 1,000-lb. lots, works lo 2.25 - —
dms., smaller lots, works lo 2.45 - —

Turkey red, bbls., works lb. .62 - —

Turpentine, gum (see Protective Coatings market, Naval Stores).

Turpentine, oil, NF, cns., dms lb. .28 - .50

Tuscan red, bbls., frt. equald lb. .26 - .32

Tyrothricin, USP, 1 to 5 kilos, gram. .54 - —

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb. bbls., dlvd, E. of Rockies lb. .35 - .39¼
Jobbing types, bbls., same basis lb. .19 - —
Regular types, dry, bbls., same basis lb. .22½- .35

Ultramarine blue prices 1c higher W. of Rockies

Umber, pigment, burnt, American, bgs., c.l., works lb. .07½- .07¾
bgs., l.c.l., works lb. .07¾- .08

Turkey-type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y. lb. .08¼- —

Raw, American, bgs., works lb. .07¾- .08¼
Turkey type, bgs., works lb. .08½- .08¾

Undecylenic acid, dms lb. 1.28 - —

Unicorn root, false (see Helonias root).

Unicorn root, true (see Aletris root).

Urea, 46% N, indust., bgs., c.l., t.l., dlvd E ton. 125.00 - —
bgs., l.c.l., dlvd E, ex whse ton. 145.00 - —
45% N, agricultural, bgs., c.l., (30 tons) dlvd E ton. 103.00 - —

Urea-ammonia liquor, A, B, C & F grades, N basis, tanks, frt. equald ton. 120.00 - —
37 grade, tanks, same basis ton. 145.00 - —

Urethane, USP, dms., t.l., f.o.b., works lb. .65 - —
dms., l.t.l., same basis lb. .70 - —

Uva-ursi leaves, bls. lb. .12 - —

V

Valerian root, Belgian, bgs. lb. .32 - —
Indian, bgs. lb 25 - —

dl-Valine, dms., works lb. 21.00 -27.50

Vanadium pentoxide, tech., dms., works lb 1.28 1.33

Vandyke brown, bbls., works lb. .09½- .12

Vanilla beans, Bourbon, tins lb. 14.25 - —
Mexican, cuts, tins lb. 14.25 - —
whole, tins lb. 14.75 - —

Vanillin, ex lignin, 100-lb fib dms., 1,000-lb lots or more lb. 3.00 - —
100-lb fib dms., 500-lb lots lb. 3.10 - —
100-lb. fib dms., cns., 100-lb. lots lb. 3.25 - 3.35

Venetian red, jobbing, bgs., works lb. .0475- —

Venetian red, 20%, bgs., works lb. .0525- —
25%, bgs., works lb. .0575- —
30%, bgs., works lb. .06 - —
35%, bgs., works lb. .0625- —
40%, bgs., works lb .0675- —

Vetiver oil, Bourbon, cns. lb. 16.50 -17.50
Haitian, cns. lb. 14.00 -15.50

Victoria blue toner, molybdated, PMA, 250-lb bbls., dlvd, E. of Rockies lb. 4.50 - 4.95
Tungstated, PTMA, 250-lb. bbls., dlvd, E. of Rockies lb. 5.55 - —
Victoria blue toner, bbls., prices 1c higher W. of Rockies

Vinyl acetate monomer, zone 1, 55-gal. dms., c.l. dlvd lb. .20 - —
55-gal. dms., l.c.l. dlvd lb. 21½- —
tanks, dlvd lb. .17½- —
tanktrucks less than 4,000 gal., dlvd lb. .18 - —

Vinyl acetate monomer, zone 2, 55 gal. dms., c.l., dlvd. lb. .21 - —
55-gal dms., l.c.l., dlvd. lb. 24 - —
tanks, dlvd. lb. 18½- —
tanktrucks, less than 4,000 gals., dlvd lb. .19 - —
Zone 1 is all continental US except zone 2. zone 2 comprises Ariz., Calif., Idaho, Mont. Nev., Ore., Utah and Wash
Vinyl n-butyl ether, tech., dms., l.c.l., works lb .50 - —
Vinyl chloride monomer, tanks, works lb. .125 - —
Vinyl ether, USP, anesthesia bots., 50cc. hospitals bot 1.12 - —
bots., 75cc. hospitals bot 1.56 - —
Vinyl ethyl ether tech. dms. c.l., works lb 29¼ —
dms., l.c.l., works lb 30 —
tanks, works lb 27¼ —
Vinyl propionate monomer, dms., c.l. dlvd lb 49 - —
dms., l.c.l. same basis lb 50 - —
tanks, same basis lb 47 - —
Vinyl trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms to tanks, works lb 1.20 - —
1 to 9 dms, works lb 1.35 - —
tanks, works lb 1.15 - —
Vinyltoluene dms. c.l. f.o.b. works. lb. 16½- —
dms, l.c.l., same basis lb. 18½- —
tanks, f.o.b dest. frt prepaid lb .14 —
Viosterol, in nat vegetable oil, 1,000,000 D units per gram bots. lots of 10 billion USP units 1,000,000 units 02½- —
Virginia type red, bbls works lb 1.40 - —
Vitamin A acetate, syn cryst., heads 500,000 A units per gram gram 07¼- —
Vitamin A acetate, dry 500,000 units per gram, kilo lots kilo 65.00 - —
325,000 units per gram same basis kilo 43.88 - —
250,000 units per gram, same basis kilo 33.75 —
Dry vitamin A acetate in less than kilo lots, $1.25 to $2.50 per kilo higher.
Vitamin A, liq in oil, 1,000,000 A units per gram 1,000,000 units. .09½- —
Vitamin A palmitate, liq. 1,000,000-1,800,000 A units per gram 1,000,000 units. .09½- —
1,000,000 A units per gram, 1,000,000 units. 09½- —
Vitamin B_1 (see Thiamine hydrochloride).
Vitamin B_2 (see Riboflavin and Yeast)
Vitamin B_{12}, cryst., USP (cyanocobalamin) 1-50 grams, vials, tons gram 120.00 - —
0.1% vitamin B_{12} USP, adsorbed on gelatin 100 and 500-gram bots. on 1-5 kilo dms gram. 1.43 - —
0.1% vitamin B_{12}, USP adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms gram. 1.43 - —
Vitamin B_{12} oral grade solids in containers of 1 and 10 gram of B_{12} activity gram 110.00 - —
0.1% trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10 kilo 138.00 - —
Vitamin B_{12} 0.1% cobalamin concentrate NF, adsorbed on resin, 500-gram bots. 1-5 kilo dms., frt. alld gram. 1.15 - —
0.1% cobalamin concentrate in gelatin, 1-10 kilo dms. frt. alld gram. 1.15 - —
Vitamin C (see Ascorbic acid)
Vitamin D (see Codliver and Fish-liver oils, Calciferol and Viosterol)
Vitamin D_2, dry, 850,000 units per gram kilo lots kilo 42.50 - —
850,000 units per gram less than kilo lots kilo 45.00 - —
Vitamin E (see a-Tocopherol and Wheat germ oil)
Vitamin G (see Riboflavin)
Vitamin H (see Biotin)
Vitamin K, active (see Menadione).
Vitamin K_1, 25 gram bots gram. 4.50 —
Violet methyl toner (see Methyl violet toner)
VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root bark, bls. lb. 2.00 - 2.25
Warfarin 0.5% dms. 50-lb. lots, dlvd lb 1.95 - —
dms., 25-49-lb lots, New York or Chicago lb 2.05 - —
dms., 5-24-lb lots, New York or Chicago lb 2.15 - —
Watchung-type reds, bbls lb 1.95 - —

WAXES
Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal dms gal. 12.25 —
White lead (see Lead white).
White mineral oil (see Mineral oil, white).
White pine bark, rossed, bls lb. .21 - .22
White precipitate USP powd dms., lb 6.55 - —
White spar (see Calcium carbonate)
Wild cherry bark, thin, nat., bls lb. .22 - —
Thin, rossed, bls lb. .22 Nom.
Wintergreen oil, USP, nat., northern, cns lb 6.35 -17.50
USP, nat., southern, cns lb 3.75 7.00
Wintergreen oil, syn (see Methyl salicylate)
Witch hazel bark, bls lb 16 .17
Witch hazel leaves, bls. lb. .28 - .30
Woodstonite fine bgs, c.l., works ton 39.50 - —
bgs, l.c.l., ex whse. ton 56.00 - —
Medium, bgs, c.l., works ton 27.00 - —
bgs., l.c.l., ex whse ton 44.00 - —
Wood alcohol (see Methanol).
Wood oil (see Tung oil).
Woolfat, crude (see Degras).
Woolfat, USP (see Lanolin)
Wormseed, Levant bgs lb 2.50 - —
Wormseed oil (see Chenopodium oil, NF).
Wormwood oil, cns lb. 4.75 5.00

X

Xylene, coaltar, indust., tanks, works:
Bethlehem, Pa. gal 29 - —
Birmingham dist. gal. 29 - —
Chicago dist. gal. 28½- —
Cleveland dist. gal. 29 - —
Geneva, Utah gal. 29 - —
Johnstown, Pa. gal. 29 - —
Lackawanna, N. Y. gal. 29½- —
Lone Star, Tex. gal. 27 - —
Lorain, Ohio gal. 29 - —
Middletown, Ohio gal. 30 - —
Minnequa, Col. gal. 29 - —
Philadelphia dist gal. 29 - —
Pittsburgh dist gal. 29 - —
Sparrows Point, Md. gal 29 - —
Terre Haute, Ind. gal. 29 - —
Youngstown, Ohio gal. 29 - —
f.o.b. works:
Xylene, petroleum, indust., tanks
Bayonne, N. J. gal. 29 - —
Baytown, Tex. gal. 27 - —
Charleston, S. C. gal. 29 - —
Chicago, Ill. gal. 28½- —
Detroit, Mich., dlvd. gal. 27½- .29
Houston, Tex. gal 27 - —
Philadelphia, Pa. gal. 29 - —
Providence, R. I. gal. 30 - —
Sewell's Point, Va. gal. 28 - —
Wood River, Ill. gal 28½- —
ylene, dms., c.l., works lb. .08 - —
ms., l.c.l. works lb. .09 - —
tanks, works lb. .06½- —
p-Xylene, dms., c.l., works lb. .20 - —
dms. l.c.l., works lb. .21 - —
tanks, frt. alld. lb. .1645- —
Xylenol, cryst., 45°-47° C., m.p., dms., l.c.l., works lb 23 - —
56°-58° C., m.p., dms. l.c.l., works, frt. equald lb. 33 - —
60°-62° C., m.p., dms., l.c.l., same basis lb. 40 - —
Xylenol fraction, b.r 7°-9° C., dry above 227° C. dms., c.l., same basis gal 1.25 - —
dms. l.c.l., same basis gal 1.30 - —
tanks, same basis gal 1.05 - —
b.r. 7°-9° C., dry at or below 227° C., dms., c.l., same basis, gal. 1.35 - —
dms., l.c.l., same oasis gal 1.40 - —
tanks, same basis gal 1.15 - —
2,4-Xylidine, tech., dms. frt. alld. lb 1.15 - —
2,5-Xylidine, tech., dms. frt. alld. lb. 1.20 - —
Xylidines, mixed, o-m-p, dms., c.l., or t.l. works lb. .39 - —
dms., l.c.l., same basis lb. .40 - —
tanks, same basis lb. .38 - —

XYLOL
Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns. lb 2.15 - 3.05
Yeast, brewers, debittered, USP, Saccharomyces dlvd lb. .27 - —
dry, USP, 50 int'l B units per gram, 100-lb. dms lb. .47 - —
USP 90 int'l B units per gram, 100-lb dms lb. .52 - —
USP, 200 Int'l B units per gram, 100-lb. dms lb. .56 - —
USP, 300 Int'l B units per gram, 100-lb. dms lb. .60 - —
Torula, USP, dlvd lb .18 - —

YELLOW PIGMENTS
Yellow pigment quotations are listed individually. For example, prices on Yellow, benzidine, may be found in the B's under Benzidine yellow.

Yerba santa leaves, bls. lb. .40 - .45
Ylang-ylang oil, Bourbon bots lb 7.00 -22.00
extra, bots. lb 28.00 -33.00
Yohimbine hydrochloride, bots., tins. oz. 3.75 - 4.25

Z

Zein, bgs., 36,000-lb lots or more, bgs 500-lb lots or more dlvd lb 343 —
bgs smaller lots dlvd lb 373 —
Zinc acetate, NF, VIII dms lb 53 —
Tech dms f.t.l. works lb 29¾ —
Zinc borate, bgs, 1,000 lbs or more works lb. .25 - —
bgs, less than 1,000 lbs same basis lb. .27 - —
Zinc chloride, NF, gran dms lb 42 —
NF precip. powd dms lb 26 —
Tech soln 50% dms c.l., works 100 lbs 5.80 —
dms., l.c.l., works 100 lbs 6.40 —
tanks, works 100 lbs 5.15 —
fused, dms., c.l. works 100 lb 10.70 —
dms. l.c.l. works 100 lbs 11.20 —
gran., fib., dms., c.l. works, 100 lbs. 11.45 —
fib dms l.c.l. works 100 lbs 11.95 —
Zinc chromate, bbls, dlvd lb 29 —
Basic, bbls, dlvd lb .34 —
Zinc cyanide, dms, 1,000-lb lots or more, works lb .55 - —
dms., smaller lots, works lb .57 - —
Zinc dust, comt., bbls, c.l., works. lb. .17 - —
Pigment, bbls., c.l., works lb. .16½- —
bbls., l.c.l., works lb. .18¼- —

—Continued on page 48

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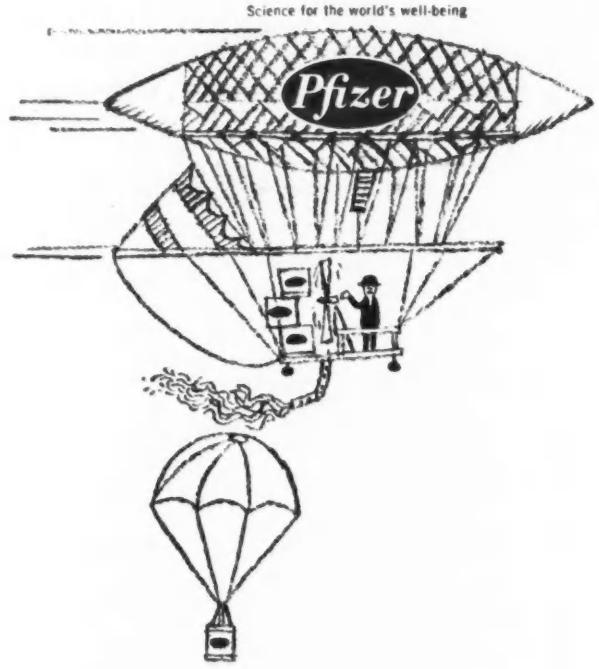

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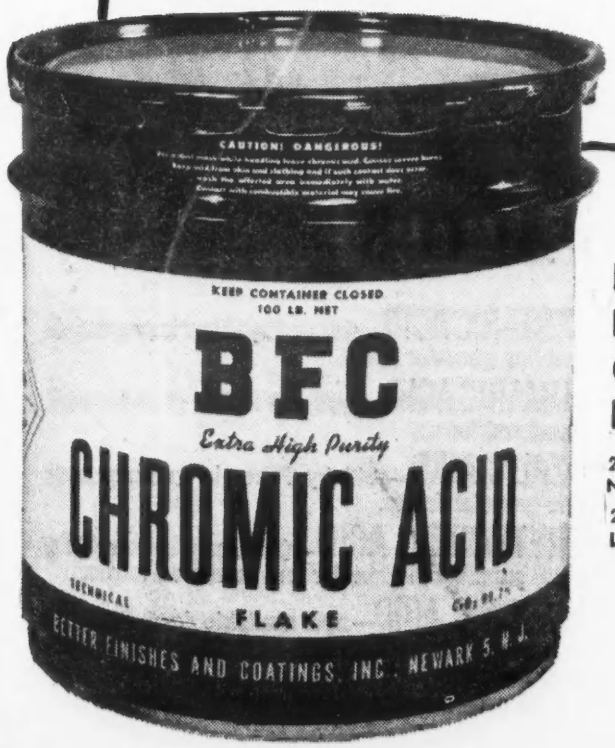

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Heavy Chemicals

With April 1 around the corner, consumers of heavy chemicals find themselves facing only a few second-quarter price boosts in alkalis. Unchanged are acids, most alkalis, all metals. As reported in the last issue of OPD, jousting among chlorine makers has ended with a $2 advance on the books after an opening play that called for a rise of $4. There will be no advance in soda ash, where one was tentatively posted, and none in caustic soda, where one was never openly considered by producers, though it became a momentary possibility when the big chlorine boost was first posted.

Higher will be two sulfur chemicals—dioxide and monochloride—in line with an announcement first made a week ago Friday. Material will be priced ¼ cent higher in bulk, ¾ cent higher in carlots, 1 cent higher in smaller shipments.

Also on the up side is calcium chloride, slated to rise $1 a ton for regular flake material, $1.50 a ton for high test flake material, the latter advance replacing an earlier posted $2 boost.

In the spot market, mercury is stronger by another notch, up $1 flask on large lots. Accounting for such conspicuous strength in a routine demand picture is the snug position of supplies, the result of light imports together with only moderate domestic output.

April 1 Price Advances

Ammonium silicofluoride, ½c. per lb.
Chlorine, liq., bulk, $2 per ton
Calcium chloride, reg., $1 per ton
High-test, flk., $1.50 per ton
Sulfur dioxide, ¼c. to 1c. per lb.
Sulfur monochloride, ¼c. to 1c. per lb.

Reports from basic industry show a definite easing from the boom pace of only a month ago. Sources reporting to this publication ventured to predict last week that steel would ease a few more percentile points of capacity before levelling-off, and that consumer buying at the retail level would do no better than coast along for a while.

Ammonium silicofluoride has been slated to rise ½ cent a pound on April 1.

The American Paper and Pulp Association reported production for the week ended March 1, at 97.6 percent of theoretical capacity as compared with the revised figure of 97.2 percent for the previous week and 93.9 percent for the corresponding week of last year.

Acids

Hydrochloric—With April 1 looming, prices are steady, meaning no advance on contract during the second quarter.

In the business picture, standing out sharply is chlorinated solvent demand, brisk and well-sustained. Almost as strong is demand from the steel industry, which since start of the year has lost only its sharp edges, off about seven percent from the post-strike record high.

Hydrofluoric—Not an obstacle appears on the boomward path of aluminum makers, sources in the trade tell OPD. Reports that the light metal people were trimming sales a bit in the light of heavy stocks are deemed premature by some observers, discounted outright by others.

Production figures from the Aluminum Association have consistently borne out those who take the optimistic view.

Nitric—As the sun sets on the fertilizer season, nitric producers find plenty of demand left—enough to keep them busy—coming by way of the steel industry and chemical makers.

Sulfuric—American Iron & Steel Institute estimates steel output during the week just ended at 2,587,000 net tons, or 91.1 percent of capacity, as against an actual total of 2,654,000 tons, or 93.1 percent of capacity, for the previous week.

According to the Institute's archives, production last month amounted to 2,674,000 tons; a year ago it was 2,631,000 tons.

Bases and Salts

Caustic Soda—Price advances of neighboring alkalis are not echoed here. For those who wonder why, two answers have been offered. One, chlorine, is in a more favorable supply position. Two, price-sensitiveness of consumers is more conspicuous in the caustic market, notably

Ammonium Silicofluoride — This material will be advanced ½c. a pound on April 1, be newly quoted at 12¼c. for large lots and 13¾c. for smaller amounts, in respect to the rayon people whose price-cutting war with nylon for the tire cord trade has not gone unnoticed by soda makers. Rayon, in fact, accounts for 15 percent of all caustic soda sales.

On the subject of rayon—Textile Economics Bureau reports that domestic producers of acetate yarn and rayon shipped a total of 83,300,000 pounds in February, down 4 percent from January and off a shade from February of last year.

Acetate filament yarn shipments totaled 19 million pounds, 4 percent better than a month earlier, and 9 percent ahead of last February's 17,400,000 pounds.

High tenacity yarn shipments, the Bureau goes on to report, came to 25,400,000 pounds, down 6 percent from January, down 3 percent from last February.

Chlorine—Liquid chlorine in bulk will be raised $2 a ton on April 1. All producers are on the bandwagon, it is reported. As duly noted here, the original $4 hike has given way under pressure of producers who were disinclined to think so big.

Sulfur — The following figures, compiled by the Bureau of Mines, show production and shipments of sulfur during specified periods:

	Dec.	Nov.
Native production	411,531	408,481
Shipments	430,071	467,301
Sales*	435,360	474,072
Stocks†	3,809,708	3,833,537
Recovered production	59,455	51,623
Shipments	63,266	53,737
Sales*	61,366	54,561
Stocks†	140,246	142,157

* Calculated from production and change in stocks during the period.
† Producers' stocks at mines or plants in transit, and in warehouse at end of period.

The following figures, compiled by the Bureau of Mines, show imports of Canadian and Mexican sulfur into the United States during specified periods in long tons.

	Dec.	Nov.
Ore	1,118	153
In any form	34,070	35,927
Total	35,188	36,080
Dollar Value		
Ore	$25,709	$4,895
In any form	734,155	791,319
Total	$759,864	$796,214

Soda Ash—Prices will go into the second quarter unchanged.

Sulfur Chemicals—Quotations of sulfur dioxide and sulfur monochloride will be raised April 1, a major producer has reported. Both will be revised to 4½c. a pound in tankcars, up ¼c; 5¼c. in carlots, up ¾c, and 6¼c. in smaller lots, up 1c. a pound.

Nonferrous Metals

Copper—Brass mills took in 36,900 tons of purchased copper-base scrap in January, 1960, down 4 percent from December, reports Mines Bureau. Total scrap consumption dropped 3 percent and stocks fell 14 percent, the agency adds.

Consumption of refined copper at brass mills rose 2 percent and that at wire mills 7 percent. Stocks of refined copper at brass and wire mills dropped for the sixth consecutive month, notes Mines.

In a Business & Defense Services Administration report, shipments of copper-base mill and foundry products are tallied at 1,172,000 pounds for the third quarter of last year, off 7 percent from the previous quarter.

The business and defense people add, however, that this was a 20 percent hike over the like '58 total.

Shipments of copper wire mill prod-

Price Trends

Advanced
Mercury, $1 per flk.
Tin, metal, straits, 1c. per lb.
Salts, ½c.-3 5c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
106.84	106.82	106.79	104.84

For Current Prices See Page 11

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Heavy Chemicals

ucts, B&G goes on to report, declined to 381 million pounds from 412 in the previous quarter, but this was fi percent over the like '58 mark.

Mercury—Market stronger again, business only routine, but supply tight, prices for large lots closing at $214 to $216 a flask on large lots, prompt shipment, the range reflecting quantity.

Fourth quarter was featured by a sharp decline in production together with a corresponding rise in imports which took care of added buying interest, according to Mines Bureau.

The Mines people report fourth-quarter output at 7,260 flasks, the lowest total since the first quarter of '57. But imports, totaling 7,314 flasks, were up 38 percent. Consumption gained 14 percent, totaling 12,200 flasks as against the previous quarter's 10,700.

Average price during the quarter dropped $11.76 to $218.01, according to Mines' archives.

Turning to 1959 as a whole, the government agency reports output of 30,750 flasks, the lowest since 1956 and the first decline since 1950.

Imports during the year totaled 30,260 flasks, down two percent from 1958. Spain and Italy supplied 78 percent of the total.

Exports of 630 flasks in 1959 was double the 1958 total. Re-exports totaled 553 flasks, adds Mines.

Silver—Price unchanged at its long-standing 91^{3}8c. a troy ounce, spot.

Tin—Market offset its recent decline with gains of 1c. per pound, closing at $1.01, spot, Friday.

International Tin Council has raised export quotas for six producing members to 37,500 tons for the quarter beginning June 1. This compares with 36,000 for the second quarter.

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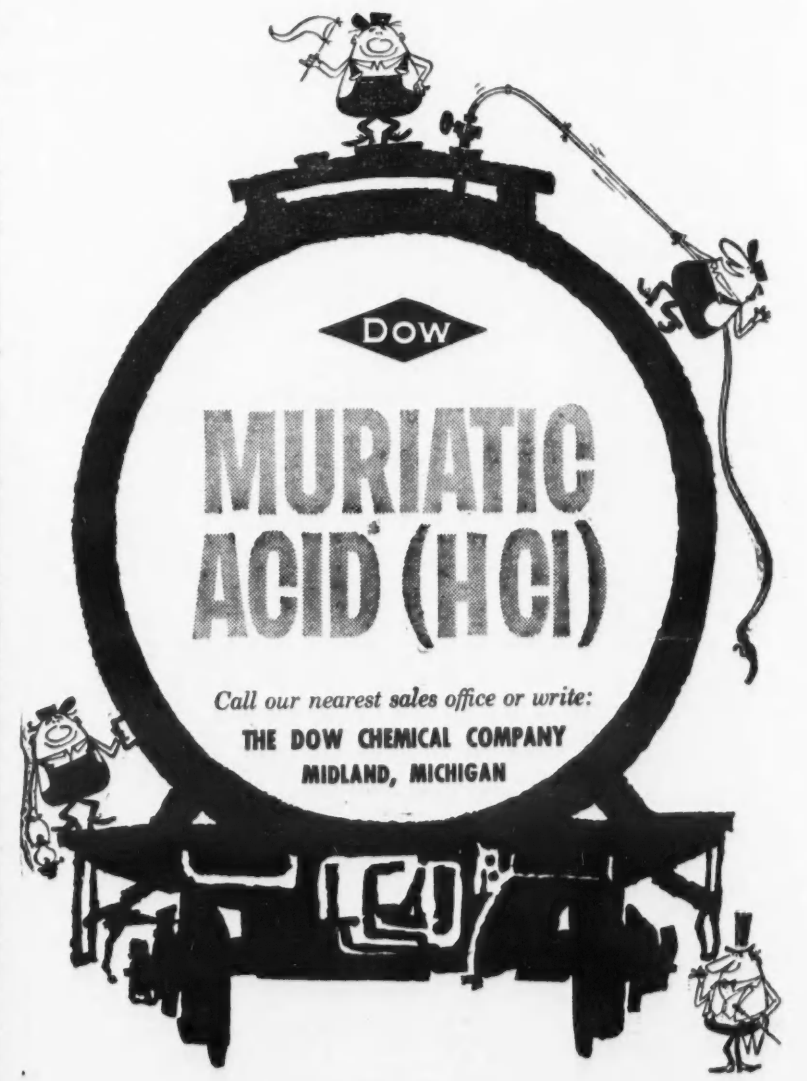

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Food Additives: FDA Extensions To Nearly 500

—Continued from page 5

stances for which the extensions are asked:

Acrylic resins, alkyd resins, alkyl aryl polyether alcohols, alkyl phenolethylene oxide condensates, epoxy resins, ethylene oxide and polypropylene glycol condensates, formaldehyde and aromatic sulfonamides, hydrogenated ketone resin and maleic anhydride-vinyl condensates.

Paraffin wax (synthetic halogenated), petroleum hydrocarbon resins, phenol coumarone-indene resins, phenolic resins, polyacrylamides, polyoxyethylene stearate, polyvinyl acetate emulsions, chlorinated rubber, styrene condensates and terpene resins.

The third group of time extensions involves some twenty-five direct and indirect food additives.

In another food additives action, FDA has ruled that gibberellic acid and its potassium salt are safe for use in the production of malt when not more than two parts per million remain in the finished malt.

The ruling was made on the basis of data submitted to the agency by Rahr Malting Company of Manitowoc, Wis.

Container Lining Extensions Listed

Following are the food container linings given one-year time extensions:

(1) Drying oils, including the triglycerides of fatty acids derived therefrom:
Chinawood.
Castor (including dehydrated).
Tall.
Linseed.
Oiticica.
Beechnut.
Candlenut.
Coconut.
Corn.
Cottonseed.
Fish (refined).
Hempseed.
Perilla.
Poppyseed.
Pumpkinseed.
Safflower.
Sesame.
Soybean.
Sunflower.
Walnut.

The oils may be raw, heat-bodied, or blown. They may be refined by filtration, degumming, acid or alkali washing, bleaching, distillation, partial dehydration, partial polymerization, or solvent extraction or modified by combination with maleic anhydride.

(2) Reconstructed oils from triglycerides or fatty acids derived from the oils listed above to form esters of:
Ethylene glycol.
Pentaerythritol.
Polyethylene glycol.
Polypropylene glycol.
Propylene glycol.
Sorbitol.
Trimethylol ethane.
Trimethylol propane.

(3) Synthetic drying oils:
Butadiene-stryene copolymer.
Polybutadiene.

(4) Natural fossil resins:
Copal.
Dammar.
Elemi.
Gilsonite.
Glycerol ester of dammar, copal, elemi, and sandarac.
Minyak.
Sandarac.

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• Peracetic Acid • Sodium Perborate
• and other Peroxygen Chemicals
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(5) Rosin derivatives, including modification by polymerization, isomerization, decarboxylation, and methyl ester of hydrogenated rosin.
Rosin esters:
Bisphenol-epichlorohydrin (epoxy).
Diethylene glycol.
Ethylene glycol.
Glycerol.
Methanol.
Pentaerythritol.
Rosin esters modified by reaction with:
Maleic anhydride.
Ortho-, meta-, and para-substituted phenol-formaldehyde as listed in paragraph (6) below.
Phenol-formaldehyde.
Calcium-resinate (limed resin).
Zinc rosinate.

(6) Phenolic resins by reactions of formaldehyde with:
Alkylated phenols (methyl, ethyl, propyl, isopropyl, butyl).
Bisphenol.
Ortho-, meta-, and paracresol.
Paracyclohexyl phenol.
Paranonyl phenol.
Paraoctyl phenol.
Paraphenyl phenol.
Paratertiary amylphenol.
Paratertiary butylphenol.
Phenol.
Xylenol.

(7) Polyester resins (including alkyd type) formed as ester of acids in subdivisions (i) and (ii) of this paragraph, by reaction with polyhydric alcohols in subdivision (iii) of this paragraph:
(i) Polybasic acids:
Adipic.
Dimerized fatty acids derived from oils listed in paragraph (1) above.
Fumaric.
Isophthalic.
Maleic.
Orthophthalic.
Rosin-maleic acid adduct (petrex acid).
Sebacic.
Terephthalic.
Trimellitic.
(ii) Monobasic acids.
Benzoic.
Fatty acids derived from oils listed in paragraph (1) above.
Rosins and rosin acids (see paragraph (5).
Tertiary butyl benzoic.
(iii) Polyhydric alcohol:
Glycerol.
Mannitol.
Alpha-methyl glucoside.
Pentaerythritol.
Propylene glycol.
Sorbitol.
Trimethyl ethane.
Trimethylol propane.

(8) Epoxy resins:
Bisphenol-epichlorohydrin.
Bisphenol-epichlorohydrin reacted with drying oils or fatty acids listed in paragraph (1) above.
Bisphenol-epichlorohydrin combined with:
Bisphenol-formaldehyde.
Diethylene triamine.
Melamine-formaldehyde.
Phenol-formaldehyde.
Urea-formaldehyde.

(9) Coumarone-indene resin.
(10) Petroleum hydrocarbon resin.
(11) Terpene.
(12) Urea-formaldehyde.
(13) Triazine-formaldehyde resins:
Benzoguanamine.
Melamine.
(14) Modifiers (for oils and alkyds, including polyesters):
Butyl methacrylate.
Cyclopentadiene.
Diallyl phthalate.
Methyl methacrylate.
Styrene.
Vinyl toluene.
(15) Vinyl resinous substances:
Polyvinyl acetate.
Polyvinyl alcohol (for fatty foods only).
Polyvinyl butyral.
Polyvinyl chloride.
Polyvinyl formal.
Polyvinylidene chloride.
Polyvinyl pyrrolidone.
Polyvinyl stearate.
Vinyl chloride-acetate-copolymer.
Vinyl chloride-acetate, hydroxyl modified-copolymer.
Vinyl chloride-acetate, maleic and modified-copolymer.
Vinyl chloride-acrylonitrile-copolymer.
Vinyl chloride-maleic ester-copolymer.
Vinyl chloride-vinylidene chloride-copolymer.
(16) Cellulosics:
Carboxymethylcellulose.
Cellulose acetate.
Cellulose acetate-butyrate.
Cellulose acetate-propionate.
Ethylcellulose.
Ethyl hydroxy ethylcellulose.
Hydroxy propyl methylcellulose.
Methylcellulose.
Nitrocellulose.
(17) Styrene polymers:
Polystyrene.
Polymethyl styrene.
Styrene-acrylonitrile copolymer.
(18) Polyethylene (branched and linear).
(19) Polypropylene.
(20) Acrylics and their copolymers:
Polybuthyl methacrylate.
Polyethyl acrylate.
Polyethyl methacrylate.
Polymethyl acrylate.
Polymethyl methacrylate.
(21) Elastomers:
Butadiene-acrylonitrile copolymer.
Butadiene-acrylonitrile-styrene copolymer.
Butadiene-styrene copolymer.
Butyl rubber.
2-Chloro-1,3-butadiene (neoprene) (with acceptable stabilizer and or antioxidant).
Polyisobutylene (for non-fatty foods only).
Rubber hydrochloride.
Styrene-isobutylene copolymer.

(22) Driers made by reaction of a metal from division (i) of this paragraph with acid, to form the salt listed in subdivision (ii) of this paragraph:
(i) Metals:
Calcium.
Cobalt.
Iron.
Magnesium.
Manganese.
Zinc.
Zirconium.
(ii) Salt:
Caprylate.
Linoleate.
Naphthenate.
Octoate (2-ethylhexoate).
Oleate.
Palmitate.
Resinate.
Ricinoleate.
Soyate.
Stearate.
Tallate.
(23) Waxes:
Microcrystalline and paraffin:

Type I: A congealing point of 160° F. maximum (ASTM D-938), an absorptivity at 290 millimicrons of 0.06 liter per gram centimeter maximum (ASTM E-131), and oil content of 1.5 percent maximum (ASTM D-721) and a Saybolt color of 20 minimum (ASTM D-156).

Type II: Absorptivity at 290 millimicrons of 1.0

—Continued on next page

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maximum, an oil content, of 5.0 percent maximum, and a color of 3.0 maximum (ASTM D-1500).
Montan.
Polyethylene.
Sperm oil.
Spermaceti.
(24) Plasticizers:
(i) Chemical type:
Acetyl tributyl citrate.
Acetyl thriethyl citrate.
Aluminum mono-, di-, and tristearate.
Butyl stearate.
Butyl phthalyl buthyl glycolate.
Para-tertiary butyl phenyl salicylate.
Dibutyl sebacate.
di-2-Ethyl hexyl phthalate.
Diethyl phthalate.
Dioctyl sebacate.
Ethyl phthalyl ethyl glyconate.
2-Ethylhexyl diphenyl phosphate.
Glycerol.
Glyceryl monooleate.
Glyceryl triacetate.
di-Isobutyl adipate.
di-Isooctyl phthalate.
mono-Isopropyl citrate.
Propylene glycol.
Sorbitol.
Triethyl citrate.
mono-, di-, and Tristearyl citrate.
(ii) Epoxy type:
Epoxidized soybean oil (iodine number less than 6; oxirane oxygen content 6 percent minimum).
3(2-Xenoxyl)-1,2-epoxypropane.
(25) Release agents:
Linoleic acid amide.
Oleic acid amide.
Palmitic acid amide.
Petrolatum.
Polyethylene glycol 400, 1,500, and 4,000.
Polyethylene wax.
Polytetrafluoethylene.
Silicones (not less than 300 centistokes).
Stearic acid amide.
Waxes, microcrystalline and paraffin, complying with the specifications set out in paragraph (23) above.
(26) Pigments and colorants:
Aluminum.
Aluminum hydrate.
Aluminum and potassium silicate (mica).
Aluminum mono-, di-, tristearate.
Aluminum silicate (china clay).
Barium sulfate.
Bentonite.
Bentonite, organic-base modified.
Burnt umber.
Calcium carbonate.
Calcium silicate.
Calcium sulfate.
Carbon black ("channel" process).
Iron oxides.
Magnesium oxide.
Magnesium silicate (talc).
Raw sienna.
Silica.
Tartrazine lake (certified FD&C Yellow No. 5 only).
Titanium dioxide.
Titanium dioxide-barium sulfate (approximately 70 percent-30 percent ratio).
Titanium dioxide-calcium sulfate (approximately 70 percent-30 percent ratio).
Titanium dioxide-magnesium silicate (approximately 70 percent-30 percent ratio).
Zinc oxide.
(27) Miscellaneous materials:
Ammonium citrate.
Ammonium potassium phosphate.
Calcium acetate.
Calcium ethyl acetoacetate.
Calcium glycerophosphate.
Calcium, sodium, and potassium oleates.
Calcium, sodium, and potassium ricinoleates.
Calcium, sodium, and potassium stearates.
Disodium hydrogen phosphate.
Lecithin (edible grade).
Magnesium, sodium, and potassium citrates.
Magnesium glycerophosphate.
Magnesium stearate.
Mono-dibutyl stearate.
Mono-dibutyl amine pyrophosphate.
Mono-, di-, and tricalcium phosphate.
Mono-, di-, and trimagnesium phosphate.
Phosphoric acid.
Sodium pyrophosphate.
Sodium tetrapyrophosphate.
Tin stearate.
(28) Surface lubricants:
Cottonseed oil and other edible oils.
Dibutyl sebacate.
Dioctyl sebacate.
Glyceryl monostearate.
Palm oil.
Paraffin wax complying with the specifications set out in paragraph (23) above.
Petrolatum.
Stearic acid.
White (mineral) oil.

Adhesives

Following are the 175-odd adhesive materials granted one-year extensions by FDA:

Acetone.
Albumin, blood.
Ammonium chloride.
Ammonium persulfate.
Ammonium silicofluoride.
Ammonium thiocyanate.
Benzol.
Benzyl alcohol.
Borated dextrin.
Borax.
Boric acid.
Butadiene acrylonitrile latex.
Butadiene-styrene latex.
Butyl acetate.
Butyl acetyl ricinoleate.
Butyl benzyl phthalate.
Butyl carbitol acetate.
Butyl cellusolve.
Candelilla wax.
Carbitol.
Carbitol acetate.
Carbon tetrachloride.
Carnauba wax.
Castor oil.
Cellosolve.
Cellosolve acetate.
Cellosolve ricinoleate.
Cellulose acetate butyrate.
Ceresin wax.
China clay.
Chlorinated biphenyl.
Copper 8-quinolinolate.
Diacetone alcohol.
Dibutyl phthalate.
Dicyandiamide.
Dicyclohexyl phthalate.
Diethylene glycol adipic acid polymer.

—Continued on page 63

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Aliphatic Organics

A producer announced a 1 cent a pound across the board advance in prices of n-propyl alcohol, effective April 1. However, other makers were holding to previous schedules. n-Propanol lists at 11½ cents per pound, tankcars, delivered. Markets for sucrose and dextrose were unchanged after a 15 cent decline reported two weeks ago. Chlorinated solvents were likewise unchanged. On tap for April 1 is a change in shipping terms of trichloroethylene. The solvent will be 12¾ cents a pound, tanks, delivered, as against the current tankcar listing of 12 cents a pound, freight equalized.

A fermentation producer of alcohol purchased 100 million gallons of molasses from Cuba at a price of 7 cents per gallon. Half of the blackstrap will be received by the end of May and the balance by the end of September. The agreement gives more continuity to purchases than has previously been the case, the company says. The company produces acetone, ethyl and butyl alcohols and esters. In addition to captive use of molasses in the production of alcohol, the company is a large seller of molasses for feed use. Considerable trade resistance is reported to a move on the part of the government to make 30 million bushels of surplus corn available for the production of fermentation alcohol.

Production of glycerine substitutes (ethylene and propylene glycols and pentaerythritol) amounted to 125.5 million pounds in December, according to report of Association of American Soap and Glycerine Producers. Previous high production month for last year was November when output amounted to 124.1 million. Total for the year was 1,305.3 million pounds.

Acetic Acid—A major chemical producer has awarded a construction contract to "alter and revise" facilities at a Brownsville, Tex., plant owned by the company. Cost of the work is estimated at $2.5 million and the changes are expected to be completed by early 1961.

Chemicals of major importance to be made at the plant will be acetic acid and acetic anhydride and methyl ethyl ketone.

Butyl Alcohol—Price was unchanged and steady at previously reported levels. Last price action in this market was the ¾c. per pound across the board advance reported at the first of the year. Butyl acetate remains unchanged. The ester did not advance in price on January 1, despite some trade feeling that it would.

Cellulose Acetate—Price on truckload lots of cellulose acetate, packed in bags, is quoted in a range of 36c. to 51c. per pound, as to quality. Prices are on a delivered East basis.

Dextrose—Sources reported a 15c. per cwt. decline in this market two weeks ago. Under new schedules, hydrated material is priced at $7.45 per cwt. Anhydrous is $1.20 per cwt. more at $8.65. Prices shading in cane sugar markets has had its effect on both refined sucrose and dextrose. However, veteran observers feel that the market will steady out at current levels.

Ethanol—A fermentation producer of alcohol purchased about 100 million gallons of Cuban blackstrap molasses at a price of 7c. per gallon. Fifty million gallons of the molasses will be received by the end of May and the balance by the close of September.

The company points out that the agreement gives more continuity to purchases than has previously been the case. In addition, it is felt to be misleading to regard the purchase purely in terms of alcohol since the company is one of the largest sellers of molasses for feed use.

The following figures indicate Cuba's share of the US molasses market during recent years.

	Total US Imports Of Molasses (gals.)	Imports of Molasses From Cuba (gals.)
1957	232,000,000	117,000,000
1958	334,308,000	188,428,000
1959	278,748,000	88,701,000

There has been considerable trade resistance to the government's move to make 30 million bushels of corn available for alcohol production. Some trade sources see it as government subsidy of fermentation production which could put 75-81 million gallons of alcohol on the market.

Ethylene—A producer recently reported plans for a second ethylene unit to be built at the company's Sweeny, Tex., site. The new production is expected to be made available by the third quarter of 1961. Output at Sweeny in April of this year will approach 290 million pounds, the company says, and the expansion will double current capacity.

Ethylene Dichloride—A chemical producer will erect a new ethylene dichloride plant at Lake Charles, La. The $1 million facility is expected to be completed by September of this year, the company reports.

This will mark the company's first venture into chemicals based on ethylene and will represent the first captive use of chlorine made at the Lake Charles site.

Ethylene dichloride will be made by reaction of ethylene and chlorine, the ethylene to be obtained from a supplier located within three miles of the unit. Ethylene will be piped to the plant.

Ethylene Glycol — Output last year amounted to 1,152.3 million pounds as against 1,145.5 million in the previous year and 1,199.9 million during 1957, according to figures compiled by the Association of American Soap and Glycerine Producers.

December output of 105.4 million pounds topped the previous high of 103.2 million pounds.

Glycerine—Preliminary figures indicate January production of crude glycerine including synthetic, amounted to 25.6 million

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1948 average)

Last week	Prev. week	Last month	Mar. 20, 1959
132.34	132.34	132.54	130.53

For Current Prices See Page 11

Aliphatics Foreign Trade: January

Exports of selected industrial aliphatic organics for the months of December, 1959, and January, 1960, as reported by the Bureau of Census were as follows:

		January 1960	December 1959
EXPORTS			
Acetone	lbs.	714,702	543,801
Butyl acetate	lbs.	701,114	3,652,939
Butyl alcohol	lbs.	5,533,696	6,966,319
Ethyl alcohol and methylated spirits	gals.	3,200	680
Ethylene Glycol	lbs.	23,269,217	15,872,080
Glycerine, crude and refined	lbs.	1,068,444	3,313,047
Methyl alcohol	gals.	1,041,215	2,424,973
Methyl ethyl ketone and methyl acetone	lbs.	345,586	560,220
Propyl alcohol	lbs.	4,154,160	5,705,130
IMPORTS			
Acetic acid (over 65 percent)	lbs.	1,155,470	0
Acetic anhydride	lbs.	78,710	298,490
Amyl alcohol and fusel oil	lbs.	0	7,010
Chloroacetic acid (mono and tri)	lbs.	946,491	910,254
Formic acid	lbs.	162,697	289,415
Glycerine, crude	lbs.	1,239,872	940,323
Lactic acid (55 percent or more by weight)	lbs.	20,615	62,060
Trichloroethylene	lbs.	5,177,695	3,662,971
Vinyl acetate, unpolymerized	lbs.	3,857,300	3,974,340
Vinyl alcohol, including derivatives	lbs.	225,154	1,294,910

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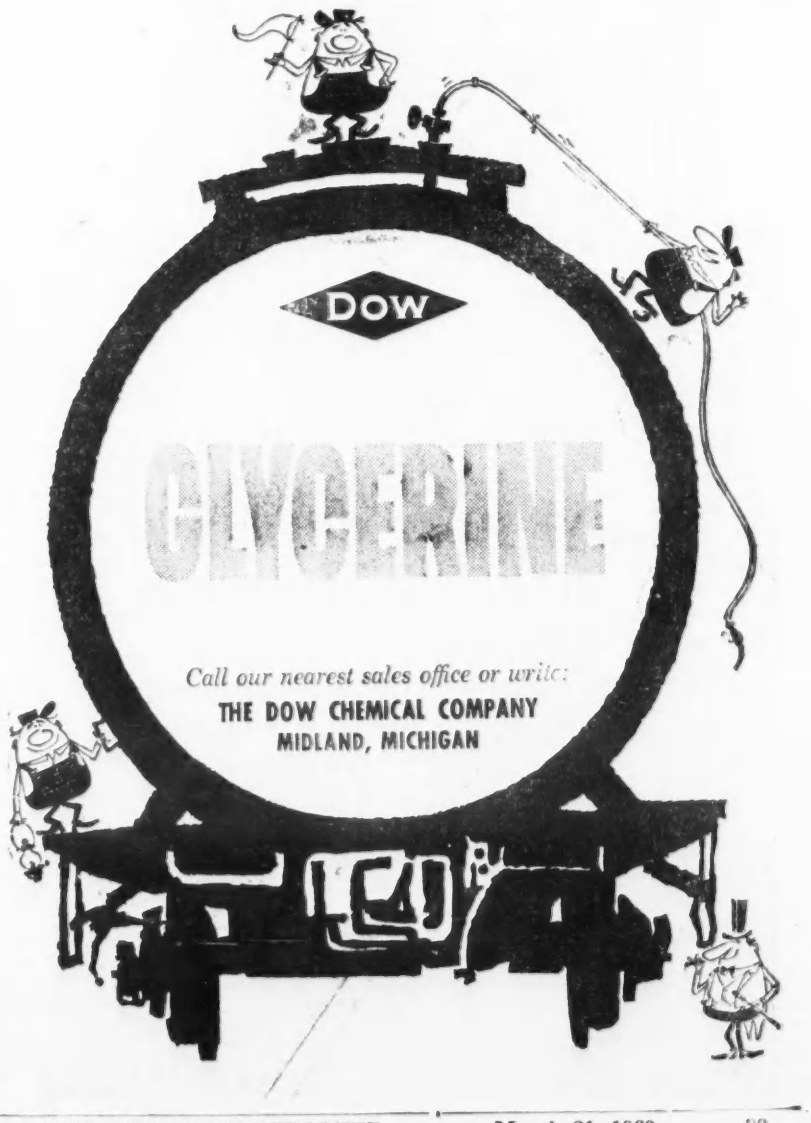

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Aliphatic Organics

pounds. Stocks at the close of the month gained 3.9 percent to 16 million pounds.

Production of refined glycerine amounted to 25.1 million pounds; stocks, 40.1 million, a decline of 5.6 percent.

Methanol—Market was unchanged from previous report. A good portion of production goes into captive use in the production of formaldehyde. Those sources reporting on sales in the open market say first quarter business was fairly well maintained. Last price action in the market was the 4c. advance of April, 1959.

Molasses—Midwest and Gulf markets for feeding cane molasses were weak. Pressure to move substantial quantities of molasses before spring pastures become available appeared to be the main reason for the continued weakness. At New Orleans blackstrap sold mostly at 9c. per gallon.

Hawaiian cane blackstrap production last year amounted to 60,848,779 gallons as against 52,767,864 gallons in 1958. Shipments to the US mainland for the two years amounted to 60,238,899 gallons and 43,974,360 gallons respectively.

Exports of feed and industrial molasses last year gained 73 percent, from 17 million to 29.4 million gallons, according to Department of Agriculture. Reduction in imports was about 16 percent, from 334.3 million gallons to 279.5 million.

A producer of fermentation alcohol reported purchase of about 100 million gallons of Cuban blackstrap molasses at a price of 7c. per gallon. Output of Cuban blackstrap is expected to be about 300 million gallons this year. Fifty million gallons of the material will be received by May 31 and the balance by Sept. 30.

Of 546 million gallons of molasses used last year, 35 million went to industrial solvents, 425 million to animal feeds and 86 million into edible uses such as table molasses.

Propionic Acid—Tariff Commission reported production of 22,519,000 pounds of propionic acid during 1958 with sales of 5,603,000 pounds valued at $989,000.

Output of calcium propionate in '58 was 6,569,000 pounds, while 3,892,000 pounds of sodium propionate were produced.

n-Propyl Acetate—Price schedules on this material are unchanged from previous report. Tankcar price is 12¼c. per pound; carload or truckload of drums, 14¾c. and less carload drum lots, 16¼c. per pound. n-Propanol prices remain unchanged; ¾c. per pound less than the ester, across the board.

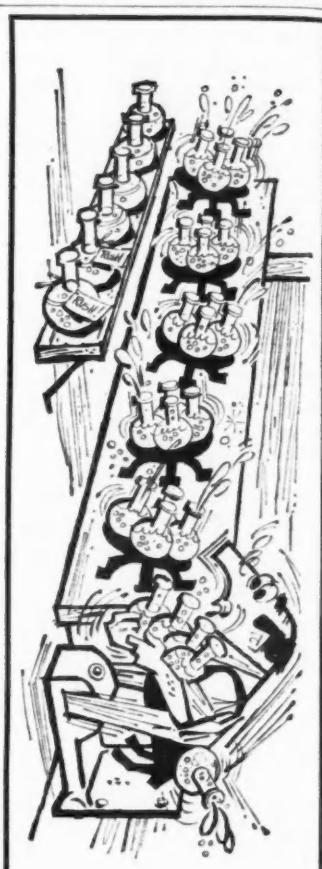
n-Propyl Alcohol—A producer announced a 1c. per pound across the board advance in the price of n-propanol, effective April 1. However, in other quarters the price line was being held unchanged at 11½c. per pound in tankcar lots, 14c. per pound for carload of drums and 15½c. per pound in less carload drum quantities. Prices are on a delivered basis.

Sucrose—Market was quiet after a 15c. decline two weeks ago established price at $9.20 per hundred pounds. Trade sources expect the market to steady out at current levels.

Trichloroethylene — Producers have slated a change in shipping terms on trichlor come April 1. Under new schedules, the tankcar price of this material will be 12¾c. per pound, delivered, as compared with the previously held 12c. per pound freight equalized price.

The market continues highly competitive, especially on the east coast, sources say. Despite increased raw materials costs, it is felt that keen competition in the market will continue to depress prices and pressure profit margins.

Vinyl Acetate—Market was generally unchanged. Trade sources reported a ½c. per pound advance in polyvinyl acetate emulsion prices.



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Agricultural Chemicals

Fertilizer materials containing 8,085,000 tons of primary plant nutrients will be available for use during the current season, according to a Department of Agriculture estimate. This is 5.2 percent greater than the 1958-59 supply—7,685,000 tons—which, in turn, exceeded the preceding year's figure by 14 percent. Forecast is an 11 percent increase in nitrogen stocks to 3,071,000 tons N, and a 3.6 percent increase for phosphates, to a P_2O_5 equivalent of 2,761,000 tons. Potash supplies, however, are expected to be about the same as last year—in terms of K_2O content, 2,253,000 tons as compared with 2,251,000.

USDA bases its supply estimates on stock trends, production rates, and foreign trade during the first six months of the fertilizer year. Its potash projection, for example, reflects the fact that total domestic deliveries in the first half of the year were somewhat less than in the same period of the previous year.

The question is now: Will farmers have sufficient capital to buy the additional fertilizer tonnage available to them? The National Plant Food Institute seems to think so. The decline in total gross farm income in 1959, NPFI notes, came entirely in livestock. Cited is a USDA report showing that cash receipts from field crops—the more important indicator of plant food buying potential—were up one percent over 1958 to a record $14.5 billion.

Moisture conditions this year, reported to be at least adequate in almost every section of the country—thus making possible an increase in average per acre yields—likewise indicate the potential for another record volume of crop sales. Also anticipated, an increase in corn, cotton, and soybean plantings. All, it seems, bodes well for the fertilizer trade.

Price Trends

Advanced

Blood, dried, N. Y., 75c. per unit-ton
Bonemeal, $5 per ton
Tankage, N. Y., 75c. per unit-ton

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
110.38	110.20	110.30	112.29

For Current Prices See Page 11

Animal and Plant Foods

Ammonium Sulfate—January production of byproduct ammonium sulfate was 137,865,197 pounds (approximately 68,392 short tons) up 7 percent from December, and appreciably higher than January 1959 output (127,208,251 pounds).

The month saw sales decline, however, to 84,863,360 pounds. This was 6.9 percent below December.

Reflecting the excess of production over shipments, stocks rose during the month 26.5 percent, to 250,247,472 pounds from 197,930,152 on December 30.

Adding to supplies, 13,863 tons of ammonium sulfate were imported in January. This material came from Canada (7,531 tons), the Netherlands (2,728 tons), and West Germany (3,609).

Canada also supplied all the ammonium nitrate and ammonium nitrate mixtures imported here the same month, and 1,102 tons of nitrogen solutions.

Animal Proteins—Fishmeal is quoted at $100 per ton, bagged, on both Atlantic and Gulf coasts, fishscrap at $96 per ton on a similar basis. Lower by $5 per ton than prices previously quoted, the current schedule is way below that in effect this time last year. On March 23, 1959, OPD listed meal at $155 per ton and reported that little if any domestic material was available.

Several factors are undoubtedly behind the currently low prices. Imports, principally from Peru where fishing is a major business, and the less than normal demand for animal and poultry feeds are probably two things that have forced prices steadily downward since last April.

Imports of fishmeal and scrap rose from 104 tons in December to 1,166 tons in January. Shipping here the latter month were Peru (660 tons), Union of South Africa (256 tons), Chile (220 tons), and Canada (30 tons).

Potash Salts—January imports of potassium chloride, totaling 14,964 short tons, came from France (10,371 tons), West Germany (2,343), and Belgium (2,250). These three countries also accounted for the 4,774 tons of sulfate brought in the same month, France supplying 2,849 tons, Belgium 1,649 tons, and West Germany 276 tons. West Germany also supplied 46 tons of potassium nitrate.

Urea—January imports totaled 5,602 tons, up from 4,609 in December. Shipping here were Canada (1,204 tons), Japan (917), Belgium (888), West Germany (571), United Kingdom (562), Norway (500), Italy (475), Switzerland (327), and the Netherlands (158).

A leading manufacturer is now offering feed manufacturers a micro-prilled feed grade urea that is "dust free and non-caking." The product is compatible with feed formulations and will not settle out, the firm says.

Pesticides

Experiments conducted by the Agricultural Research Service indicate that soil treatment may eventually replace tree spraying to control the plum curculio in peach orchards. Specific pesticides tested for the job: aldrin, dieldrin, and heptachlor. With all three, similar results were obtained.

Applied to the ground under trees at a rate of about 2 pounds per acre and mixed with the top layer of soil, each of the insecticides effectively controlled the curculio Conotrachelus nenuphar by killing the pest before it could emerge from the ground.

In a cooperative experiment with a Georgia peach farmer, 64 pounds of 25 percent aldrin were mixed with each ton of 10-10-15 fertilizer and spread under several thousand trees in March 1958.

Each tree was treated with 2½ pounds of the mixture, which amounted to 2 pounds of aldrin per acre. The material was broadcast by hand and disked into the ground. No wormy peaches were found when the orchard was harvested in 1958. In 1959, the owner found wormy fruit in only one small area. In contrast, peaches in a neighbor's untreated orchard were ruined by the plum curculio.

Farm Chemicals Imports: January

Following are data compiled by the Census bureau indicating volume of imports of agricultural chemicals for December, 1959 and January, 1960. Figures for ammonium phosphates and fishmeal and scrap account only for that material intended for use as fertilizer. All figures are in short tons.

	January	December
Ammonium nitrate (over 32 percent N)	9,868	*
Ammonium nitrate mixtures (32 percent N or less)	565	*
Ammonium phosphate	8,259	32,907
Ammonium sulfate	13,863	14,352
Calcium cyanamide	2,444	2,864
Castor bean pomace	1,547	0
Dried blood	320	556
Fishmeal and scrap	1,166	104
Guano	41	2,819
Nitrogen solutions	1,402	*
Peatmoss (fert. grade)	5,111	7,575
Phosphate rock	7,694	19,276
Potassium chloride, crude	14,964	51,550
Potassium nitrate, crude	46	88
Potassium sulfate, crude	4,774	7,499
Sodium nitrate, crude and refined	25,609	28,843
Urea	5,602	4,690

*Not previously reported.

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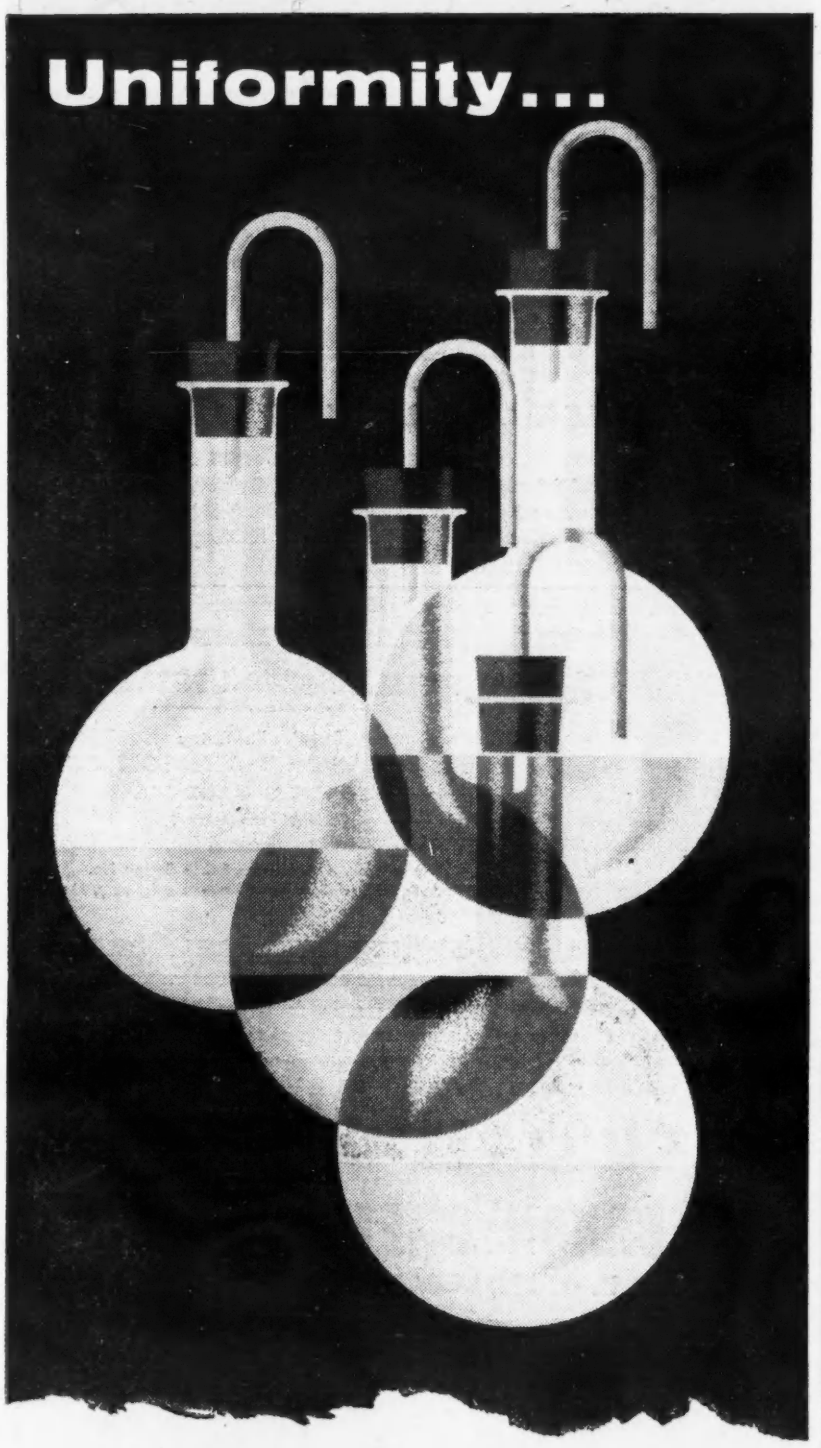

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Coal Chemicals

All forms of b-naphthol will advance 1 cent per pound across the board, effective April 1. Price of molten material will be 33 cents per pound, while flake b-naphthol in carload will be 34 cents and powder in carload, 36 cents a pound. A major producer announced revised schedules for toluenesulfonic acid. Shipping terms have been changed from f.o.b. works to freight allowed. In addition, a schedule for 55-gal. drums has been established which will be 2 cents a pound less than the one for 100-lb. or 10-gal. containers. New tankcar price is 14 cents per pound; truckload of 55-gal. drums, 16 cents and truckload of 100-lb. or 10-gal. drums, 18 cents per pound. Previous carload price was 17 cents a pound.

Technical grade styrene monomer will advance from 12.17 to 12.22 cents per pound on April 1. The advance amounts to 5/100 cent per pound across the board. Polymer grade is unchanged at levels of long standing in the trade.

A petrochemical producer, who recently brought a phthalic anhydride unit on stream at Joliet, Ill., has elected to hold a 17 cent price on PA. Limited quantities of phthalic have been shipped from the new plant to contract customers. The material is the first to be produced by oxidation of a mixed xylene stream. Changes in equipment and in the method of doing the job will delay output of isophthalic until about mid-year. Terephthalic acid and dimethyl terephthalate have been produced at the plant during the past year.

April 1 Price Advances

Isophthalic acid, 2c. per lb.
b-Naphthol, 1c. per lb.
Styrene monomer, tech., 5/100c. per lb.

February production of ingots and steel for castings amounted to 11,119,000 net tons, according to report of the American Iron and Steel Institute. The figure compares with 12,049,404 tons in January and 9,602,938 tons in February, 1959.

Shipments of finished steel products during January amounted to 8,429,696 tons. A record 1,878,682 tons, about 23 percent of January shipments, went to the automotive industry.

The Institute estimated that steel production in the week ended March 20 would amount to 91.1 percent of theoretical capacity equivalent to 2,597,000 net tons of steel. Output in the week previous was 2,654,000 tons, 2,674,000 in the comparable week one month ago and 2,631,000 net tons in the corresponding week one year ago.

Price Trends

Advanced
None
Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
118.40	118.40	118.40	118.55

For Current Prices See Page 11

Basic Products

Benzene—Sellers continued to move their output promptly to consuming channels, while wishing they had more benzene to sell. A strong export demand has remained in evidence with offers of 42c. per gallon reported. However, since no surplus is available to this outlet, this represents a nominal figure.

As to when the market will ease appreciatively, observers are non-committal. It had been thought that there would be some easing in supply by this time, but such has not been the case. Heavy demand from styrene and phenol makers has been well sustained. Activity in textile and fiber outlets this spring and summer will determine nylon production and, in turn, will be an additional factor in benzene demand, sources say.

Naphthalene—As previously reported, price on crude naphthalene will range from 5c. to 6c. per pound in tankcars. The 5c. price is being held in some quarters, while the majority of suppliers have slated a 1c. increase for April 1.

Imports for the month of January amounted to 4.5 million pounds, less than half the 10.4 million pounds imported in January of last year, according to Census bureau figures.

Phenol—The production of phenolic molding resins amounted to 20.5 million pounds in December as opposed to 19.8 million in the previous month, according to report of the Tariff Commission. Part of the reason for the steady growth of phenolics, the first thermosetting plastics known, is attributed to the continued development of new resin formulations to meet the needs of faster, more automatic production. Back of this, however, are the basic characteristics of phenolics which have led to continued widespread trade acceptance. Resistant to moisture and most common chemicals, capable of being machined and able to withstand temperatures of up to 300 degrees Fahrenheit, phenolics gain in durability and versatility what they may lack in "glamour."

Tar Acids—Producers are adequately supplied to meet modest trade demands. TCP outlet has been slow. Sources foresee some upturn in demand from this outlet with warmer weather and an increase in gasoline consumption. However, the fact remains, acid sales have fallen below expectation in the first quarter.

Toluene—The overall market for toluene and xylene remains adequately supplied. However, octane values consume quite a bit of toluene and xylene potential. This has led to localized tight supply conditions in the Gulf area. In other sectors, where it is a question of shipping a car or two of solvent to a paint manufacturer, suppliers are well able to cater for market requirements.

Intermediates

Diphenyl—Price on technical material is quoted at 15¾c. per pound, tankcars; 16¾c., carload, bags, and 18½c. per pound, less carload, same packing. Prices are listed on a freight equalized basis.

Toluenesulfonic Acid—A major producer announced revised schedules on toluenesulfonic acid. The material will be priced on a freight allowed basis as against the previous f.o.b. works basis.

Under new schedules, the tankcar price will be 14c. per pound. In 55-gal. drums

Aromatics Foreign Trade: January

Following statistics are compiled from Census bureau reports. Units used by the bureau are retained in all cases. Attention is called to the fact that exports of toluene are reported in pounds.

		January 1960	December 1959	January 1959
EXPORTS				
Benzene	gals.	1,410,220	624,053	2,150,231
Coaltar, crude and refined	gals.	29,156	31,296	30,149
Creosote or dead oil	gals.	220	1,100	34,304
Cresols and cresylic acids	lbs.	559,993	573,134	766,677
Phenol	lbs.	1,734,225	3,650,160	7,392,195
Phthalic anhydride	lbs.	469,469	25,520	1,781,480
Pitch	short tons	2,122	2,130	3,346
Toluene	lbs.	45,227,877	46,558,103	36,417,061
IMPORTS				
Benzene	gals.	0	4,650,147	3,781,758
Creosote and dead oil	gals.	5,993,944	4,881,734	6,916,424
Cresols and cresylic acid, ADF	gals.	141,704	142,622	144,977
Naphthalene, melting point less than 79° C	lbs.	4,503,368	4,059,587	10,455,705
Melting point 79° C and over	lbs.	.....	.....	.....

Coal Chemicals

the truckload price is 16c. per pound; 1,000-lb. or more, 18c. per pound and less than 1,000-lb. lots, 23c. per pound.

In 100-lb. or 10-gal. drums the truckload price is 18c. per pound; 1,000-lb. or more, 20c. and less than 1,000-lb., 25c. per pound.

Material previously listed at 17c. per pound in carload of drums and 18c. in less carload drums.

b-Naphthol—All forms of b-naphthol will be increased 1c. a pound, effective April 1. Increased costs of raw materials, freight and labor are behind the advance, sources say.

Under new schedules, b-naphthol, flakes, carload or truckload, will be 34c. powder, carload or truckload, will be powder, carload or trduckload, will be 36c. and less carload, 38c. a pound. b-Naphthol in molten form, tankcar or tanktruck, will be 33c. a pound.

Phthalic Anhydride — A petrochemical producer, with new facilities for phthalic production at Joliet, Ill., has elected to stay with the 17c. per pound price on PA. Limited quantities of material have become available from the unit within the the past month and this material, the first to be produced from a mixed xylene stream, is being shipped to contract customers.

Dimethyl terephthalate and terephthalic acid have been produced at the plant during the past year and isophthalic acid is expected to be made available by midyear. On the latter item, sources report that a change in equipment and method of doing the job has delayed production.

A split price schedule is a certainty in this market. Prices on bagged, flake phthalic, in carload lots, will range from 17c. to 21c. per pound as to producer. The market remains tight and producers are well sold up.

There was speculation as to whether consumers have been able to inventory any material during the past month. Any such inventorying would have been necessarily small, it is felt, and buyers will be starting off the second quarter taking all the phthalic they can get as has been the case for many months past.

Styrene Monomer—A producer reported an April 1 advance in technical grade styrene monomer will amount to 5/100c. per pound across the board.

Under new schedules, effective April 1, the tankcar price of styrene monomer will be 12.22c. per pound; carload or truckload of drums, 14.72c. and less carload or truckload, drums, 16.72c. per pound.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ended March 20, was as follows:

Ammonium liquor	lbs.	821,442
Ammonium sulfate	lbs.	34,546,202
Benzene	gals.	3,331,403
Coaltar	gals.	18,208,722
Crude chemical oil	gals.	532,416
Solvent naphtha	gals.	106,483
Toluene	gals.	745,382
Xylene	gals.	212,966

Polypropylene Fiber

—*Continued from page 3*

company's Elizabethton, Tenn., plant, which reportedly needs no physical expansion for the project.

Planned capacity of the unit is 12 million pounds of staple fiber a year. Source of polymer supply hasn't been chosen yet. Denying earlier reports that a supplier had been selected, the company spokesman says it will consider "anyone who supplies it."

Polypropylene from the plant, the spokesman adds, will be competitive in price with all other fibers on the market.

Nylon production is slated to start up in about sixty days at a rate of 2.5 million pounds a year. Whether nylon or rayon will be given the major emphasis over the long run, the company has not yet decided.

Morgantown Revisited

—*Continued from page 3*

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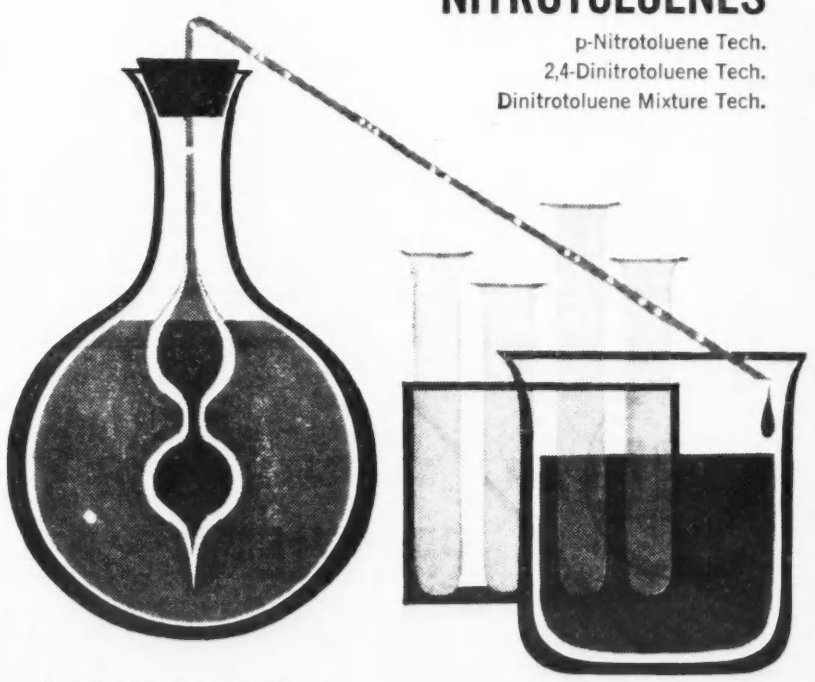

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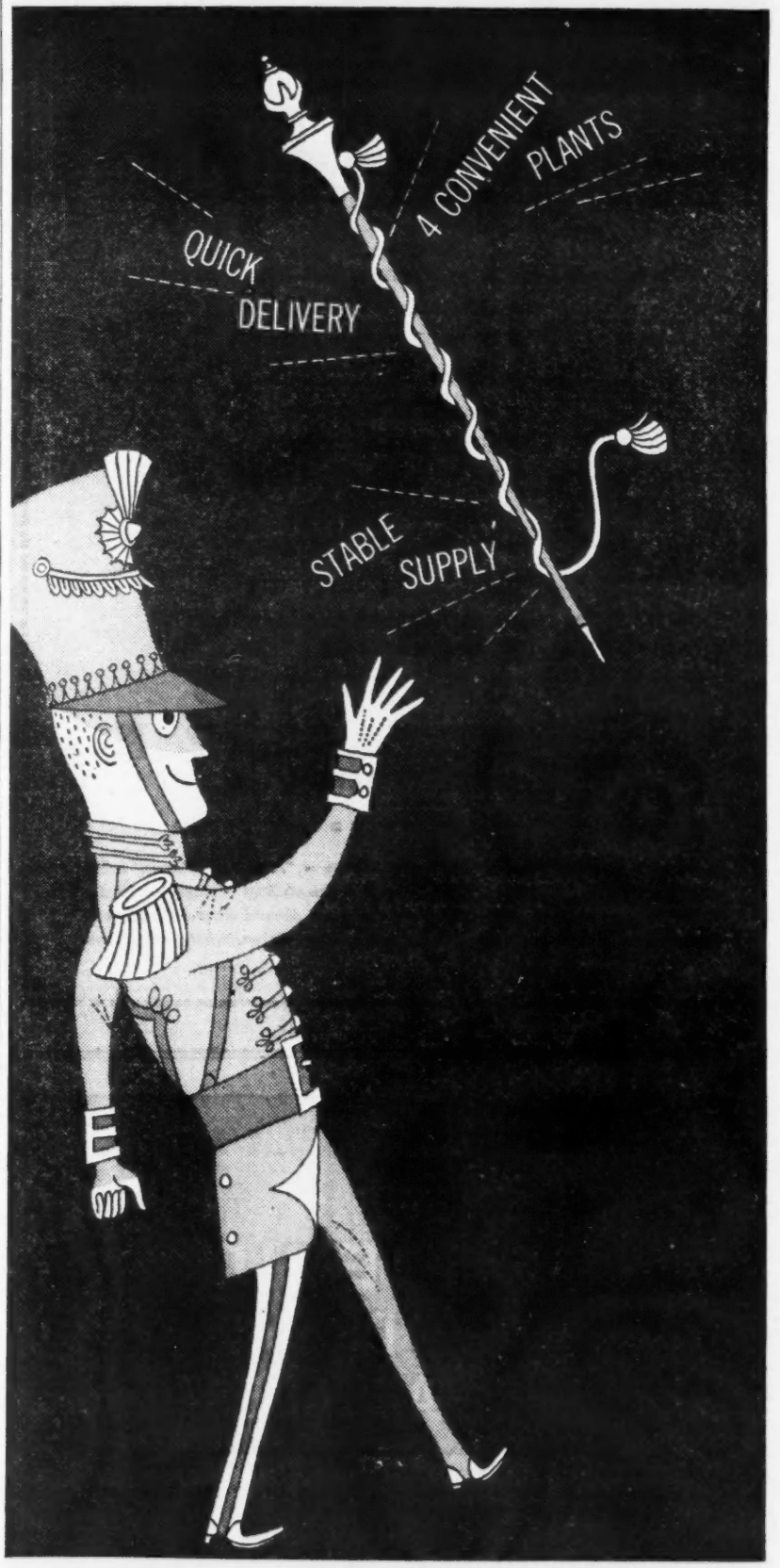

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Hazardous Label Legislation May Become Melee

—*Continued from page 3*

the house interstate commerce committee by Dr. O. Benwood Hunter, speaking for AMA at a one-day hearing on the pending hazardous labeling bill.

Last year, AMA was content with simply filing a letter with the senate committee on the bill; this year it was deemed best to make a personal appearance before the committee.

FDA's bid for changes in the food and drug law on labeling was made to the committee by Commissioner George P. Larrick. He said the absence of these changes was the only "flaw" in the legislation. His was only a half-hearted effort, however. Secretary of Health, Education & Welfare, Arthur S. Flemming, has previously stated that the hazardous labeling bill would make a good law even without Title II.

Commissioner Larrick repeated that the bill would be acceptable to him without the FDA changes.

Mr. Larrick made his first appeal for a Title II in the bill during hearings before the senate committee. The senate committee rejected the proposal, however, and its formal report to the senate that became available last week says simply that the committee "believes this proposal should be the subject of separate legislation."

Larrick Sees Stumbling Block

Commissioner Larrick indicated the stumbling block to getting Title II in the bill is the drug manufacturers. He said the only person from the food industry who objected to cautionary labeling on pressurized food containers has withdrawn his objection while the change in the law having to do with strengthening labeling of cosmetics to get at certain hair preparations is acceptable to the Toilet Goods Association.

In the case of drugs, FDA proposes adequate warnings on the labeling of drugs against substantial and reasonable foreseeable risk of causing accidental injury, and for instructions for first aid treatment where necessary or appropriate.

In an attempt to satisfy FDA, representatives of the Pharmaceutical Manufacturers Association and the Proprietary Association have made the following suggestions:

• While repealing the federal caustic poisons act in other respects, the new law would continue FDA's authority over labeling of drugs now listed as caustic poisons. This would plug one loophole FDA Commissioner Larrick has been concerned about during the transition period.

• The bill be expanded by addition of a new section that would contain two provisions.

One provision would require the caution "Warning—Keep Out of the Reach of Children," "Warning—Keep This and All Medications Out of the Reach of Children" on labels of a medicine "if it is for use by man and contains a salicylate including aspirin, methyl salicylate in an amount of 0.5 percent or greater and salicylamide (except effervescent salicylate preparations and preparations of para-amino salicylic acid and its salts)."

The other provision would require that a medicine contained in a pressure dispenser "bear such cautionary labeling with respect to handling, storage and use of containers as is necessary to prevent the causing of injury to the health of any user or other individual during or as a result of reasonably foreseeable handling, storage or use thereof, intentional or otherwise."

During the brief hearings held by the house subcommittee, drug producers did not get a chance to testify on the FDA changes. The hearings had to be halted because the house was in session. The Proprietary Association is expected to file a statement with the committee later, however.

Chief Sponsor: CSMA

Chief sponsor of the bill is the Chemical Specialties Manufacturers Association, whose spokesman, Dr. Emil G. Klarmann, explained the purposes of the legislation and offered numerous changes which were agreed upon in conferences between industry and the government last year. His testimony duplicated that which he gave before the senate committee.

Supporting Dr. Klarmann for the Manufacturing Chemists' Association was Chester L. French, chairman of the labels and precautionary information committee of MCA; and Dr. John F. Osterritter, medical director of Celanese Corporation of America, New York. Mr. French said the bill is wholly consistent with the principles of the LAPI Committee.

Anticipating the proposals of the AMA for broadening the scope of the bill, Mr. French said that such an extension would be unwise since the additional products which would be covered would be those classified as commercial or industrial.

Precautionary labeling of commercial and industrial products directly involves the employer-employee relationship which traditionally has been a matter left by the federal government to the states, he said.

The Association of American Soap & Glycerine Producers filed a statement endorsing the bill, with the changes proposed by Dr. Klarmann. The Liquefied Petroleum Gas Association asked for an amendment to exempt "bottled" gas from the terms of the bill.

Chemical Commercialization

—*Continued from page 7*

plating" on construction costs for a pilot plant.

Just when it seemed the situation could get sticky, J. Kenneth Craver, of Monsanto Chemical Company, lightened things a bit by mentioning that a potential end-use—application of lignin in road construction—had been ruled out because of consumptoin of a road to the company president's fishing retreat by voracious mushrooms.

It was at this point that Mr. Craver mentioned a wide variety of successful achievements for "Solvent X" which, on the face of it, over an eighteen-month development period, made things look pretty good.

"You did all this with fourteen gallons of solvent?" David S. Alporn, of Union Carbide Corporation, asked testily, at one fell swoop rapping at Mr. Messing's seeming inability to produce carloads of material from laboratory glassware and Mr. Craver's indiscreet distribution of material to potential betrayers of company security. Mr. Alporn acted as a sham firm's manager of marketing deevlopment.

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Trade Name Chemicals & Specialties

Argus Chemical Corporation has added three new non-toxic vinyl stabilizers to their line of products. Trade named **"Mark 33," "Mark 34"** and **"Mark 35,"** all three have been approved as being non-toxic by the Food & Drug Administration. Any one of the three can be used as the sole stabilizer system for rigid compounds with resultant good stability. Because these stabilizers are non-liquid and because they do not require the addition of epoxidized oils, Argus claims that they avoid the reduction in the heat distortion temperature level and the loss of other important physical properties which accompany the use of liquid-type plasticizers and stabilizers. Another feature cited by the company is the fact that increased stability can be obtained by raising the stabilizer level.

Rohm & Haas Company has announced price changes in their single strength grades of **"Pectinol,"** which are **"Pectinol A," "Pectinol M"** and **"Pectinol O."** All three of them will be increased 5 cents per pound, effective April 15. There will be no increase, however, in the price of concentrated grades of **"Pectinol,"** states Rohm & Haas. Another price shift announced by the company is a 9 cent reduction in **"RhoPlex HA-8,"** an acrylic resin emulsion product for non-woven fabrics and other textiles. New truckload drum price is 25 cents per pound.

WHAT'S REPORTED ON HERE

Though coverage in the Trade Name Chemicals & Specialties market report encompasses twenty classes of chemicals, only a few of them are mentioned in this issue. Here's the entire list:

Adhesives, antibacterials and fungicides, antifoaming agents, antioxidants, antistatic agents, blowing agents, catalysts and accelerators, chelating agents, chemically processed oils, emulsions and latexes, enzymes, fatty acid derivatives, feed supplements, filtering materials, ion exchange resins, surfactants, synthetic waxes, textile chemicals, thickening and suspending agents, and ultraviolet absorbers.

If you have suggestions for any additional materials that might be included in this section, write OIL, PAINT AND DRUG REPORTER's Technical Editor, 30 Church street, New York 7.

Antioxidants & Antiozonants

B. F. Goodrich Chemical Company, a division of B. F. Goodrich Company, has on the market a line of antioxidants called **"Good-rite,"** which includes both non-staining, non-discoloring inhibitors and aromatic amines.

"Good-rite AO 3100" chemically is phenyl-B-naphthylamine. Available in flakes or powder, Goodrich reports that this gray colored antioxidant has a minimum setting point of 106°C., is 97 percent pure, has a distillation range of from 180 to 200°C. at 3 millimeters, and has a maximum heat loss in two hours at 105°C. of .25 percent.

Concerning solubility properties, **"Good-rite AO 3100"** is said to be insoluble in water at 30°C. or at 100°C., and partially soluble in acetone, benzene, monochlorobenzene, isopropyl acetate and gasoline. With regard to applications, Goodrich recommends, **"Good-rite AO 3100"** for use with dry rosin sizes.

Finally, discussing reactions, Goodrich claims that **"Good-rite AO 3100"** undergoes a coupling reaction with diazonium salts and on sulfonation yields water soluble mono- and polysulfonic acids. With nitrous acid it forms the N-nitrogen compounds. The hydrochloride is precipitated by passing dry HCl gas through a benzene solution of the amine.

The chemical division of Goodyear Tire & Rubber Company makes available **"Wing Stay 100,"** a non-volatile, staining type combination stabilizer, antioxidant and antiozonant used to prolong the life of all types of rubber.

According to Goodyear, field tests performed with **"Wing Stay 100"** show that small amounts of it added to rubber stocks prior to vulcanization are effective in combatting the problems of ozone. This is said to be particularly significant in the tread and sidewall areas of automotive tires where such problems as flex cracking and general rubber breakdown are prevalent.

Continuing with the advantages which **"Wing Stay 100"** imparts, Goodyear claims that being non-volatile, it retains effectiveness both under high heat and for long periods of time which is important in rubber articles operating at high temperatures and under unusual stress.

The company further says that **"Wing Stay 100"** does not activate the cure of rubber stocks in the processing stage; rather, its use encourages rubber processing without change of premature cure and the resulting waste. More specifically, Goodyear states that of interest to recapcapers is **"Wing Stay 100's"** ability to reduce deterioration in unvulcanized retread stocks, and that tread rubber fortified with the material has greater storage stability.

Chelating Agents

"Plexene XX" is an aqueous solution of an organic sequestering agent, which chemically is ethylenediamine tetraacetic acid. Manufactured by Tanatex Chemical Corporation, **"Plexene XX"** is recommended for chelating ferric iron through a pH range of 3 to 14, and it is also effective in chelating calcium, magnesium, copper and other di- and tri-valent metals.

Applications of **"Plexene XX"** are many and varied. In the textile industry, Tanatex suggests their product for use in dyeing operations to deter dulling of shade due to iron and copper. In printing pastes it is said to prevent viscosity variations caused by metallic ions, and to increase the stability of the print paste for longer periods of time.

Among rubber, latex and paint applications, Tantatex has found that **"Plexene XX"** will stabilize latex, along with latex and resin emulsion paints against the deleterious effects of copper and iron resulting in protection against breakdown and discoloration. Another use of **"Plexene XX"** is for prevention of coagulation of emulsion polymers and latices by other heavy metals.

In paper and inks, **"Plexene XX,"** continues the company, is used to remove iron from paper and cellulose products in order to obtain lighter stocks with greater resistance to yellowing.

A main application of **"Plexene XX"** is in bottle washing. Effective for all bottle washing operations, Tanatex reports that this EDTA chelating agent reduces rejects, removes iron, reduces drag-out of caustic soda solution, cleans and derusts tanks, and removes heavy deposits of soil and grease.

The **"Tetrines"** are organic chelating, sequestering and complexing agents put out by Glyco Chemicals, a division of Chas. L. Huisking & Co., Inc. Concerning stability, the **"Tetrines"** reportedly are stable to storage and to most conditions of dilution, temperature, time and pH. Also stable to alkali, these materials, however, according to Glyco, can be degraded by strong oxidizing agents. They can retain their efficiency, on the other hand, when used with hydrogen peroxide of the strengths met in bleaching operations.

As is often the case with other chemicals, Glyco's **"Tetrines"** react more rapidly at high rather than low temperatures. Otherwise, temperatures have practically no reaction on the **"Tetrines."** With regard to pH effect, Glyco claims that their EDTA chelates chelate hard water compounds, calcium and magnesium derivatives, more completely and quickly on the alkaline side while they sequester heavy metals, such as iron and copper, to the best ability on the acid side.

Glyco goes on to say that unlike many other materials their **"Tetrines"** are effectual in most systems, even when present at as small a proportion as a few parts per million. However, the company explains that the rate of solubilization proceeds extremely slowly in highly dilute solutions. This effectiveness of **"Tetrines"** in dilutions makes them desirable for rinsing operations.

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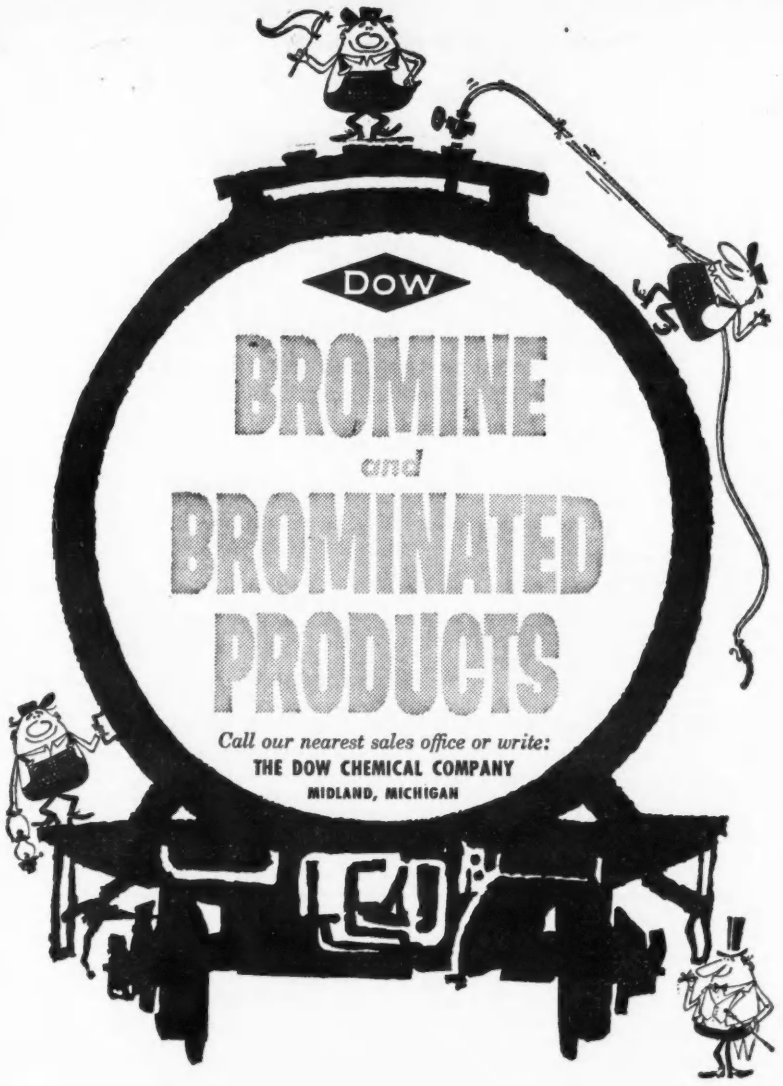

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Drugs, Fine Chemicals

Import statistics are now being compiled by the Census bureau for vitamins C, B_1, and B_6. Prior to January, 1960, these and other vitamins were grouped in one of two major categories: of animal origin or of other than animal origin. This classification told only part of the story. Foreign competition is minimal in some vitamin markets, but a significant pricing factor, reportedly, in others. Now one can more accurately determine the extent of this competition, at least as it effects C, B_1, and B_6, frequently described as price-depressed due to the influx of cheaper foreign material.

"Fulvicin," an oral antifungal antibiotic developed by a pharmaceutical house recently up before the Kefauver probers, is winning great praise from the medical men. Typical of the several articles citing the effectiveness of the drug is one appearing in the February 6th issue of the Journal of the American Medical Association. This report, based on studies conducted by the Department of Medicine of the University of Cincinnati, concludes: "There can be no doubt that this agent offers the first hope for consistent cures . . . Results were almost uniformly good, with eradication of the infection, especially in tinea capitts, where a complete cure may be obtained. At this time, grisoefulvin ("Fulvicin") appears to be an almost uniformly effective antifungal antibiotic in superficial ringworm infections."

Choline salicylate may have a place in the prolonged treatment of pain crippling rheumatic diseases, according to a report appearing in the Southern Medical Journal (January 1960). It was suggested even that the drug could eventually replace steroids and aspirin.

Of thirty-two individuals treated with the drug in one of several tests cited in the article, it was found that 88 percent of the cases, having various types of rheumatic disorders, had excellent or good response to choline salicylate. These responses were evidenced within one to six weeks after the start of the treatment. Side reactions occurred in only three patients and these immediately disappeared after the dosage was reduced. Also noted: Use of codeine salicylate minimized the need for sedatives and codeine.

Camphor—Camphor imports in January included 2,500 pounds of crude, all from Japan; 24,953 pounds of refined—23,553 from Japan, 400 from Taiwan; and 52,600 pounds of synthetic from West Germany.

Domestic demand for camphor should start to increase as the big Spring consumer market opens up.

Menthol—Offerings from Brazil, major source of US menthol supplies, have been extremely limited in the past several months, and consequently demand for synthetic material has mounted. This situation is accurately reflected in import statistics.

In January, natural menthol imports were a mere 59,631 pounds, in contrast to 63,119 in December and 110,756 in November. Imports of synthetic material, on the other hand, rose from 4,351 in December to 22,052 in January. And reports indicate that since that time the government has received countless applications from US firms to import synthetic menthol from Europe.

Supplying natural menthol in January were Brazil 42,696 pounds, Taiwan 11,820, Japan 3,660, and Argentina 1,455. The synthetic came from France 17,722; Australia 3,000; and West Germany 1,330.

Prices, as seen by dealers here, range from $8.25 to $9 per pound for Brazilian menthol, to $12 for Japanese. Formosan material is quoted at $8.50.

Quinine—According to Census bureau reports, no quinine sulfate was imported in January. This is notable since scarcely a month goes by that some material is not brought in. In December, for example, imports totaled 116,746 ounces, and in all of 1959 an estimated 745,789 ounces.

Perhaps, the absence of imports in January reflects the fact that a US firm was then negotiating with General Services Administration for the purchase of the government's 13.8 million ounce quinine stockpile, long ago declared excess to defense needs. The sale, which looked like a sure thing one day, fell through the next, as we all know now.

At present, quinine sulfate prices are said to be strengthening with GSA's failure to unload its quinine horde one of the strength-imparting factors. Prices in Europe are also edging higher reportedly.

Quinidine imports in January were 46,517 ounces, considerably below December's figure, 75,746. Material came from The Netherlands (26,517 ounces), West Germany (10,000 ounces), and The United Kingdom (10,000 ounces).

Saccharin—Saccharin imports in January were a mere 8,200 pounds, with Japan supplying 5,200 and The Netherlands the remainder. December imports were way higher at 25,578 pounds. Total (estimated) for 1959 was 301,999 pounds.

Influx of foreign material, principally from Japan, has had a disturbing effect on domestic markets, resulting in a severe cut in a US maker's schedule late last year. According to reports, the market is still competitive and is likely to remain so.

Not only imports, but other sweetening agents such as the cyclamates are giving stiff competition to saccharin.

Sodium Benzoate—Additional production of sodium benzoate and benzoic acid is due during the fourth quarter. By that time, a chemical firm will have completed construction of a 12-million-pound per year plant, now going up at its New Jersey plant site.

Used as food additives, both chemicals

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
60.35	60.35	60.22	60.87

For Current Prices See Page 11

Drugs and Fine Chemical Imports: January

Imports of selected drugs and fine chemicals for the months of December, 1959, and January, 1960, as reported by the Bureau of Census, were as follows:

		January 1960	*December* 1959
Ascorbic acid	lbs.	41,444	*
Caffeine	lbs.	29,000	167,890
Camphor, crude	lbs.	2,500	0
Refined	lbs.	24,953	3,000
Synthetic	lbs.	52,600	146,450
Iodine, crude	lbs.	59,855	149,049
Menthol:			
Natural	lbs.	59,631	63,119
Synthetic	lbs.	22,052	4,351
Pyridoxine hydrochloride	lbs.	220	*
Quinidine and salts	ozs.	46,517	75,746
Quinine sulfate	ozs.	0	116,746
Saccharin	lbs.	8,200	25,578
Sodium alginate	lbs.	5,000	74,350
Tartaric acid	lbs.	160,501	46,298
Thiamin hydrochloride and mononitrate	lbs.	3,527	*
Theobromine	lbs.	9,751	1,400
Vitamins and vitasterols, n.e.c.	lbs.	28,365	*

* Not previously reported.

Drugs, Fine Chemicals

are among the materials recently classified as "safe" for use under the new food additives amendment to the Federal Food and Drug Act.

Vitamins—The Census bureau is now reporting monthly import statistics for three vitamins: ascorbic acid (C), thiamin hydrochloride and mononitrate (B_1), and pyridoxine hydrochloride (B_6). Domestic makers have long cited these markets as being price-depressed because of volume of cheaper foreign offerings. Extent of import competition can now be readily seen.

In January, imports were:

Ascorbic Acid: 41,444 pounds, valued at $151,271. Japan shipped 29,318 pounds, valued at $116,975; Denmark 12,126 pounds, valued at $34,296.

Thiamin: 3,527 pounds, valued at $31,322. Japan shipped 2,425 pounds, valued at $20,322; Panama 1,102 pounds valued at $11,000.

Pyridoxine: 220 pounds, valued at $9,686. All from Japan.

Vitamins, not elsewhere classified: 28,365 pounds. Shipping here were West Germany 13,550 pounds; France 6,710; Switzerland 4,671; Japan 1,764; The Netherlands 1,105; Italy 209; Canada 200; Denmark 134; the United Kingdom 22.

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Botanicals

Pricewise there's little doing these days in botanicals. For imported items, a few changes have been posted—the reductions reflecting arrival of new crop, the advances small stocks—but, in general, stability is the dominant market characteristic.

Domestic botanicals are quite another situation, however. With a couple of months yet to go before new crop starts coming in, supplies are already tight. As one dealer reports, all the domestic items are in one of three categories: unavailable, in short supply, or available but at high prices.

Imports detained at the Port of New York during the two week period ended March 11 included 3 lots (48 bags) of gum karaya, 24 bales of lemon peels, and 2 lots (71 cases) of papain.

Agar—Prices are nominal at $2.35 to $2.40 a pound for Kobe No. 1 strip, dealers say, explaining that supplies are just abount unavailable. According to a report of last week, however, new crop material is expected to be arriving here soon. This will probably drop the price to the usual quote of $2.10 a pound.

Senega Root—Price is up to $3 a pound from the former $2.75. Advance reflects the shortness of dealers' stocks in face of relatively good inquiry.

Serpentaria Root—Quote is unchanged but notably high at $6.50 a pound. Though not a large volume item, serpentaria is subject to moderately good interest. Currently, supplies are on the short side.

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Current Market Quotations

—Continued from page 33

Zinc fluoride, bbls., works	lb.	.49	.50
Zinc hydrosulfite, dms., c.l., frt. alld	lb.	.21½	—
dms., l.c.l., frt. alld.	lb.	.23½	—
Zinc metal, prime western, slabs, E. St. Louis	lb.	.12½	—
Prime western, slabs, New York	lb.	.13	—
Zinc naphthenate, liq. 8% Zn., dms., frt. alld	lb.	.27	—
10% Zn., dms., frt. alld	lb.	.33	—
Zinc nitrate, tech., cryst., bbls., works	lb.	.20	—
Zinc oxide pigment, American process, lead-free, bgs. c.l., frt. alld	lb.	.14½	—
bgs. l.c.l. 10 tons or more, same basis	lb.	.15	—
Zinc oxide pigment, American process, lead-free, bgs., l.c.l., smaller lots, same basis	lb.	.15½	—
leaded .45% bgs. c.l., mills, frt alld	lb.	.15⅝	—
bgs. l.c.l. 10 tons or more, same basis	lb.	.15⅞	—
leaded .50% bgs. c.l., same basis	lb.	.15¾	—
bgs., l.c.l. 10 tons or more, same basis	lb.	.16¼	—
bgs. l.c.l. smaller lots, same basis	lb.	.16⅜	—
French process, green seal, bgs., c.l., mills, frt. alld	lb.	.16¼	—
bgs., l.c.l. 10 tons or more, same basis	lb.	.16¾	—
bgs. l.c.l. smaller lots, same basis	lb.	.17¼	—
red seal, bgs., c.l., same basis	lb.	.15¾	—
bgs., l.c.l. 10 tons or more, same basis	lb.	.16¼	—
red seal, bgs., l.c.l., smaller lots, same basis	lb.	.16¾	—
white seal, bgs. c.l., same basis	lb.	.16¾	—
bgs., l.c.l. 10 tons or more, same basis	lb.	.17¼	—
bgs., l.c.l., smaller lots, same basis	lb.	.17¾	—
Zinc oxide, USP, dms. c.l. frt. alld.	lb.	.18¼	—
dms., l.c.l., 10 tons or more, same basis	lb.	.18¾	—
dms., l.c.l., smaller lots, same basis	lb.	.19¼	—
Zinc phenotsulfonate, NF, gran., dms	lb.	.45	.46
NF, powd., dms	lb.	.48	.49
Zinc resinate, precip., 7.2-7.6% Zn., dms., frt. alld	lb.	.40¼	—
Zinc silicofluoride, dms., works	lb.	.12½	.14
Zinc stearate, tech., USP, etns., c.l.,	lb.	.41	—
etns., l.c.l.	lb.	.43	.46
Zinc sulfate, powd., monohydrate, 36% Zn., bgs., c.l., dlvd. E	100 lbs.	8.75	—
bgs., l.c.l., dlvd. E	100 lbs.	9.75	—
USP, gran., dms.	lb.	.26	—
Zinc sulfate in bbls. 40c. higher.			
Zinc sulfide pure, bgs. c.l., dlvd	lb.	.2530	—
Zinc undecylenate, dms	lb.	2.00	—
Zinc yellow (see Zinc chromate).			
Zinc-ammonium chloride, ogs., c.l., works	100 lbs.	10.25	—
bbls., c.l., works	100 lbs.	10.85	—
bbls., l.c.l., works	100 lbs.	11.35	—
Zinc-formaldenyde sulfoxylate, basic, 300-lb. dms., frt. alld	lb.	.26	—
Normal, 250-lb. dms., frt. alld	lb.	.52	—
Zircon (G), gran. bgs., c.l., works.	lb.	.03¼	—
bgs., 5 tons to c.l., works	lb.	.03⅜	—
bgs., 1 ton to 9,999-lb lots, works.	lb.	.04	—
bgs., smaller lots, works	lb.	.06½	—
Zircon (G), milled, bgs., c.l., works.	lb.	.04¼	—
bgs., 5 tons to c.l., works	lb.	.04⅜	—
bgs., 1 ton to 9,999-lb. lots, works	lb.	.04⅝	—
bgs. 500-1,999-lb lots, works	lb.	.07½	—
Zircon (G) in barrels 1c. higher.			
Zirconium acetate soln., 13% ZrO_2, dms. c.l., 30,000 lbs. min., works	lb.	.23	—
Zirconium hydride, powd. electronic grade dms. works	lb.	14.00	15.00
Zirconium oxide, CP, white, grd., bbls or bgs. works	lb.	1.50	—
Electric-fused lump, bgs., 500 to 1,999-lb. lots, works	lb.	.48½	—
bgs., smaller lots, works	lb.	.51	—
milled, bgs., c.l. works	lb.	.62	—
bgs., 5-ton lots, works	lb.	.62½	—
bgs., 1-ton to 9,999-lb. lots, works	lb.	.63½	—
bgs., 500 to 1,999-lb. lots., works	lb.	.64	—
bgs., smaller lots, works	lb.	.66	—
Glass polishing grade, 94-97% ZrO_2, bgs., works	lb.	.55	.93
Opacifier grade, 85-90% ZrO_2, bgs.,	lb.	.27	.50
Stabilized oxide, 91% ZrO_2, milled, bgs	lb.	.62	.83
Zirconium oxychloride, cryst., etns., 5-ton lots, works	lb.	.37½	—

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Nopco Chemical Elects Three to Top Positions

Nopco Chemical Company, Newark, N.J., has just elected three top officials.

Chosen vice-president is Robert M. Urich, jr., an eighteen-year Nopco veteran, who had been serving as assistant treasurer.

Elected treasurer is Alfred O. Brookes, while the new secretary is Julius J. Denzler.

Plant Food Sales

—*Continued from page 7*

crease was recorded in mixtures, USDA notes. The total established a new peak in annual consumption of mixtures. Thirty-seven percent of the nitrogen, 79 percent of the phosphate, and 87 percent of the potash were applied as mixed fertilizers.

The largest increases in fertilizer consumption occurred where cotton and corn acreages were up sharply; the smallest increases where there was little change in planted acreage, according to USDA. Increases were reported in all but seven states.

Consumption of nitrogen totaled 2,643,000 tons, an increase of 359,000 tons (15.7 percent); available phosphate totaled 2,576,000 tons, an increase of 283,000 (12.3 percent); and potash totaled 2,177,000 tons, an increase of 242,000 (12.5 percent).

GATT Causes Alert

—*Continued from page 7*

are obstructing the free flow of commerce from the US by imposing import restrictions for balance of payment reasons.

The views expressed by the industry will be taken into consideration at Geneva under three GATT provisions relating to such restrictions.

Below is a sample list of complaints that the committee would like to hear about:

- Quantitative import restrictions affecting goods available from the United States have resulted in unnecessary damage to the commercial or economic interest of the United States, its citizens or organizations.
- Not even minimum commercial quantities of imports of specific commodities from the United States are permitted.
- Trade is being restrained by complex or arbitrary licensing procedures, or lack of adequate information available to traders regarding import regulations.
- Reasonable access to a traditional foreign market has not been restored for a particular commodity, even though the country concerned has substantially relaxed its restrictions on imports in general.
- The long-standing application of import restrictions by a country on a particular product has been accompanied by the growth of uneconomic output of that product within the country.
- Discrimination exists in the treatment of goods available from the United States as compared with the treatment afforded similar goods from other countries with convertible currencies.

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Essential Oils, Aromatics

Once again, firmness characterized the essential oil markets. Price advances were noted in grapefruit which went up 15 cents per pound, and sandalwood which went up 50 cents per pound. Grapefruit oil was reported to be quite scarce and sandalwood, in moderately tight supply. Larger quantities of sandalwood oil will be unavailable until the next big auctions at source which are scheduled for July. Other firm markets are peppermint, cardamom, cedarleaf and rosemary.

Some dealers have actually raised their prices for peppermint, but the OPD range remains unchanged. News from source is that most of the 1959 crop material has been spoken for and that producers are eager to get as much for the remainder of the oil as they can.

Among the seeds and spices, black pepper showed a bit of a decline. White pepper came down considerably, and red pepper from Carolina was reported to be approaching a season of scarcity.

Vanilla beans from both Madagascar and Mexico are reported to be marking time, price-wise. No change has been noted in several weeks.

To clarify the OPD listing for ethyl vanillin, we have inserted a third price-quantity designation. Material in lots of 200 to 500 pounds, in 100-pound fiber drums, sells for $7 per pound.

From the Foreign Commerce Weekly, published by the United States Department of Commerce in Washington, D.C., we reprint the following information on Spain's citrus fruit production:

In 1959-60, it is estimated at 1.6 million metric tons. Though the large output will consist of small fruit with limited export possibilities, exports should be at least 1 million tons.

Exports from the beginning of the present season (November) through January, 1960, amounted to 428,536 tons, about 100,000 more than at the same time last year. These figures were furnished to the Foreign Commerce Weekly by the United States Embassy in Madrid, Spain.

Price Trends

Advanced

Grapefruit, 15c. per lb.
Sandalwood, 50c. per lb.

Reduced

None

Comparative Price Indexes

(100 = 1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
146.71	146.61	146.97	146.61

For Current Prices See Page 11

Essential Oils

Cardamom—The market is reported to be firm. Prices remain at their previous range, $29 per pound to $43 per pound.

Cedarleaf—A firm market is reported. Prices range between $2.50 per pound to $3.25 per pound.

Citronella—No change has been noted since the 5c. per pound advance two weeks ago in Ceylon material. It ranges between 95c. per pound to $1.15 per pound. Material from Formosa ranges between 85c. per pound to $1.25 per pound.

Dillweed—This market may be firming. The OPD range is, this week, altered from $3 to $4 per pound to $3 to $4.25 per pound. These prices refer, of course, to the domestic material in cans.

Eucalyptus—The NF rectified, 70-75 percent material continues at prices ranging between 50c. per pound and 55c. per pound.

Ginger—Reports from essential oil dealers in the metropolitan New York area indicate that the ginger oil market is weakening.

The OPD price range continues between $11.50 and $15, but a few dealers who had been quoting $15 have revised their listings so that their new prices are now in the middle of the range.

Ginger is one of the oldest and most important spices in the world. It is particularly popular in the very warm countries for the cooling effect it has on the skin. At first it causes the surface vesicles of the skin to open which causes a feeling of warmth. Then, with increased activity of the sweat glands, perspiration results and the skin feels appreciably cooler.

Grapefruit—Reports from the essential oil dealers show that grapefruit oil rose in price last week 15c. per pound. From its previous low, $2.10 per pound, it advanced in price to $2.25 per pound. The high of the range remains at $2.70 per pound.

Oil is reported to be rather scarce, thus the firming market.

In past years, prices have been generally lower than they are today. In fact, one must go back to 1954 in order to find a higher price. In that year, the low of the OPD range was $2.50 per pound. The next year it dropped to $1.75 per pound. In 1956 it was down to $1.65 and in 1957 it was down to $1.50 per pound. In 1958, however, it advanced a bit—to $1.60 per pound.

Peppermint—Indications are that the peppermint oil market is firming. The price range continues at its previous level, however. Natural material ranges between $4 and $4.60 per pound and redistilled material continues to range between $4.25 and $5.25 per pound.

Possibly responsible for the firming, said one dealer in essential oils, is that most of the 1959 crop material has been spoken for and the producers are eager to get as good a price as they can for the remainder of the oil.

Toward the end of 1959, the Department of Agriculture Crop Reporting Board predicted that peppermint oil output would be 2,224,000 pounds for 1959—some 13 percent less than the previous year's crop, but 24 percent more than the average year's crop.

Even if the market is firming, prices will have to go up considerably to compare with those of a few years back. In 1954, for instance, the natural material was selling for as much as $8 per pound. Since then it has gradually come down. The high in 1955 was $7.75 per pound, in 1956 it was $6.25 per pound, in 1957 it was $4.75 per pound and in 1958 it was $4.50 per pound.

Redistilled material was $8.35 per pound in 1954 and has declined in proportion to the natural material.

Rosemary—Spanish material is selling for prices ranging between 97c. per pound and $1.40 per pound. Little change in general market conditions was noted except that one dealer raised his already-high price. The previous range was between 97c. per pound and $1.20 per pound.

This is not, however, proof that the market is firming. In fact, we are just approaching the producing season for rosemary oil in Spain. According to agriculture reports, the distillation takes place usually between March and July. If demand is particularly good, the oil is sometimes distilled in the winter months prior to the regular producing season in the province of Murcia.

Rosemary oil is generally produced by the peasants who operate their own stills. These same peasants usually do quite a bit of farming, so the distillation of rosemary oil is a side-light activity.

Yield of oil from the plant material is approximately one kg. per 25 pounds during the summer. During the winter, however, the yield is considerably lower.

Sandalwood—A 50c. per pound rise in the price of sandalwood oil was reported last week by the essential oil dealers here in the New York area. This brings the low of the OPD range up to $16.75 from its previous low, $16.25 per pound. The high of the range is $18 per pound.

A tight situation at source is said to be responsible for the firm market. Some material is being offered, but the next big action won't take place until July.

Imports Detained at N. Y.

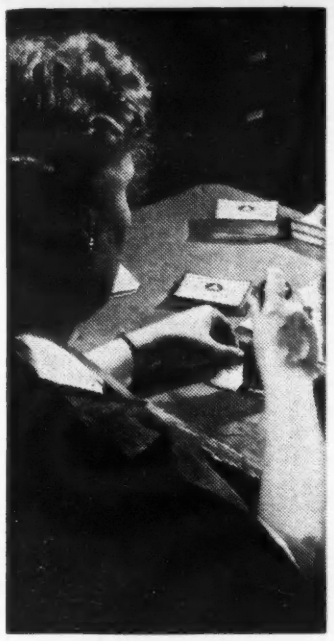
Week Ended March 11, 1960

Black pepper, 8 lots, 2,556 bags.
Cassia, 31 lots, 3,458 bales.
Chillies, 284 bags.
Coriander seed, 2 lots, 800 bags.
Fenugreek seed, 2 lots, 272 cartons.
Gum Karaya, 3 lots, 48 bags.
Mace, 28 cases.
Nutmegs, 4 lots, 300 bags.
Papain, 2 lots, 71 cases.

Aromatic Chemicals

Benzyl Benzoate—The USP grade is now selling for 62c. per pound.

Coumarin—The NF material in drums



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Essential Oils

ranges in price between $3.30 and $3.40 per pound.

Ethyl Vanillin—Prices of this aromatic are as follows: lots of 500 pounds and over, in 100-pound fiber drums, $6.75 per pound; lots of 200 to 500 pounds, in 100-pound fiber drums, $7; smaller lots in 100-pound fiber drums, $7.30 to $7.40 per pound.

Vanillin—Imports of vanillin from Canada amounted to 21,800 pounds valued at $64,242.

Seeds and Spices

Cassia—Demand is light and prices are as low as they have been for some time, it was reported. Little or no material is expected to arrive here before the new crop comes in during May and June.

Pepper—Price-wise the black and white pepper markets declined a bit during the week. Malabar black came down from 59c. per pound to 58c. per pound; Lampong black remained at 59c. per pound, and Muntok white came down from 96c. per pound to 89c. per pound.

One of the brokers reported that the market is generally firmer because:

- Roumania bought 200 tons from India.
- East Germany and Russia showed interest in material at source.

The following theory has been put forth to explain the fluctuations the pepper market has undergone in the past weeks. To begin with, New York stocks are sufficiently large to cover nearby requirements. But when India receives adequate interest from other markets, they are in a position to bear our market off, cover their sales, and put the market back up almost at will.

Red pepper from Carolina will probably have a slim season because reports indicate that growers are generally reluctant to plant a crop for the fall. For the past two seasons yield has been so low that the farmers are discouraged.

Import-wise, the bulk of the Hontakas and Santakas has arrived. Reserves in New York, it has been reported, are not large. Strength in the market is expected during the summer.

Turkish chillies are said to be low priced.

Turmeric—The bulk of the new crop Alleppey material has already come in and the remainder of the crop is in growers' hands who are reluctant to sell at low levels. Prices are expected to rise soon.

Vanilla Beans—Dealers report that the market for vanilla beans is rather inactive. Prices remain at their previous levels which are: Bourbon, $14.25 per pound; Mexican cuts, $14.25 per pound, and Mexican wholes, $14.75 per pound.

Grace Film

—Continued from page 4

similar applications: cellophane (2.7 cents to 3.3 cents per 1,000 square inches), "Saran" (4 cents) and polyethylene (2.7 cents).

Cryovac's electron beam generator is located at its Simpsonville, S. C., plant. The patent-protected stretching process, known as biaxial orientation, by means of irradiation increases the strength of the plastic material more than 500 percent. This makes it possible to stretch the material in both directions more than 200 percent.

When exposed to hot air or hot water at 180 degrees, the film immediately shrinks, by 20 percent, and will continue to shrink equally in all directions as the temperature is increased until it returns to its original size.

According to the division, the Grace patents cover all polyolefins including high- and low-density polyethylene and various copolymers.

However, high-density polyethylene is reported to give better film properties: high temperature resistance, greater stretch and greater shrink tension because of the additional strength provided by the denser material.

Polak List Offered at Middletown

Polak's Frutal Works, Inc., Middletown, N. Y., a manufacturer of perfume and flavoring materials, has just issued a thirty-two-page flavor list. The catalog contains information pertaining to the manufacture of various food products. Requests should be made to the company at Middletown, and not to the Chicago office as had been erroneously stated in a previous OPD mention.

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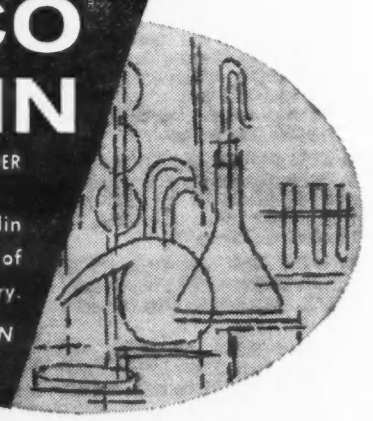

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Petroleum Derivatives

The market conditions for the petroleum derivatives held true to form this week. Supplies of benzene are reported to be extremely tight, with many orders for spot material at prices well above the current market listings of 34 cents a gallon meeting with few takers. The situation in regard to xylene and toluene is none too bright for producers. They have excess supplies and no real sources are in sight that might drain off this surplus. Prices for both the aromatics and aliphatics are unchanged.

The Department of the Interior reports that 301,041 barrels a day of imported crude oil were exchanged for domestic crude oil by the importers during the six months ended on June 30. The total import allocation for crude oil is 938,313 barrels a day. The departments Oil, Import Administration said it was impossible to determine with accuracy the exact amount of domestic oil involved in the exchanges.

In the area East of the Rocky Mountains, sixteen oil companies are receiving 262,225 barrels a day of imported crude from 102 other companies in exchange for domestic oil. Exchanges are authorized under the oil import control program on condition that oil be exchanged for oil, without any money changing hands, and that the recipient of the domestic oil process it in his own refinery.

Under the mandatory import controls on foreign oil, all inland refiners were given import quotas. Because of transportation costs, the inland refiners cannot use their quotas with the same degree of effectiveness as the refiners operating closer to the coasts, they exchange crude with refiners near tidewater for domestic crude near their plants. In this manner the inland refiners are able to save around $1 a barrel on the oil that they exchange since foreign oil is available at prices that are considerable below the posted prices for domestic crude.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
104.34	104.34	103.64	104.42

For Current Prices See Page 11

Aromatic Solvents

Benzene—Prices on spot material, when it becomes available continues to reflect the bone dry supply position of this aromatic solvent. Orders, at prices well above the contract price of 34 cents a gallon find few takers due to the scarcity of the material. In some areas, a spot price above 40 cents a gallon fails to draw out benzene from producers. Estimates as to when this tight situation might be alleviated vary from source to source. But most trade observers feel that the tightness in benzene will be around over the summer months.

Toluene—No change in general supply position is reported this week for toluene. The excess of the solvent is still on the hands of producers. Prices are unchanged from previous weeks.

Xylene—Prices for all areas hold unchanged from their previous listings. As with toluene, this aromatic solvent remains on the long side of the supply picture. It had been the opinion of some trade sources that the predicted near record production in auto manufacturing would result in greater demand for many solvents. The reverse was actually the case as the market softened in the Detroit area on listing of xylene. No further softening was reported this week.

Aliphatic Solvents

Cleaners Naphtha—With the nation caught in the grips of a deep freeze it appears unlikely that consumers will consider storage of their winter garments at this time. As a result the usual seasonal rush in cleaning operations that comes with the advent of Spring will probably be delayed this year. Presently cleaning operations are at routine levels. Prices hold at the same listings as in previous weeks.

Hexane—Demand continues to be well sustained from the auto makers. Counterbalancing this is the report that vegetable oil extraction operations has been considerably slowed, resulting in a generally fair volume of sales. Prices are unchanged from the previous listing of 16c.-to-20c. a gallon.

Mineral Spirits—Total trade sales for paints, varnish and lacquer hit $130,300,000 for the month of January, according to reports of the Bureau of Census. This represents a 9 percent increase over the estimated figure for December and 4 percent over the amount reported for January of 1959. Should this favorable trend continue, the 1960 total trade sales should brake the record level set in the previous year.

Despite the growing volume of water thinned paints that have, and are continuing to cut into the trade paint market, the effect on the mineral spirits demand should be favorable. At present calls for both the odorless and regular mineral spirits are normal. Demand continues at the same levels as has been the case over the last few weeks. Prices are unchanged.

LPG's

In its annual report concerning reserves of crude oil and natural gas liquids, the American Petroleum Institute estimates the total proved reserves of natural gas at 6,204,018,000 barrels, as of December 31, 1959. Proved reserves of natural gas for 1959 amounted to 703,444,000 barrels. The increase in natural gas liquids reserve was estimated at 6,522,308,000 barrels. Production during the year stood at 385,154,000 barrels.

Ethane—Production of this LP gas was 75,154,000 gallons in December, 1959 according to the Bureau of Mines. Stocks were at 14,635,000 gallons of which 3,757,000 gallons were at plants and terminals while refineries accounted for the remaining 10,878,000 gallons.

Propane—The Bureau of Mines estimates that the production of propane was 523,556,000 gallons for the month of December. Deliveries to plants and plants for use in gasoline accounted for 9,912,000 gallons. Stocks were down from the November levels of 65,562,000 gallons to 54,978,000 gallons in December.

Miscellaneous

The A.P.I. estimates that the daily average production of crude oil and lease condensate for the week ended March 4 was 7,152,810 barrels.

Reports received from refining companies indicate that the industry as a whole ran to stills on a Bureau of Mines basis approximately 7,922,000 barrels of crude oil daily and produced 28,436,000 barrels of gasoline; 1,963,000 of kerosene; 11,992,000 of distillate fuel oil and 6,591,000 of residual fuel oil during the week; and had in storage 218,938,000 barrels of finished and unfinished gasoline; 20,590,000 of kerosine; 101,554,000 of distillate fuel oil and 44,084,000 of residual fuel oil on March 4, 1960.

According to the Bureau of Mines, current reports of the industry for the week ended March 4, 1960 indicate a decrease in crude-oil production and a decrease in crude runs. According to the API, the daily average output of crude (including lease condensate) was 7,153,000 barrels, a decrease of 165,000 barrels from the preceding week. Daily average crude runs to stills of 7,922,000 barrels were 186,000 barrels below the preceding week, and 285,000 barrels below the week ended March 6, 1959.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended March 5, totaled 252,715,000 barrels according to data reported by the Bureau of Mines. Compared with the total of 253,149,000 barrels the preceding week, this represents a decrease of 434,000 barrels comprising a decrease of 506,000 barrels in stocks of domestic crude and an increase of 72,000 barrels in stock of foreign crude.

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Coatings Materials

Following the price increases of a few weeks ago on phthalic anhydride, the producers of phthalate plasticizers announced price increases of 1-to-2½ cents a pound. Listings for all producers tend to conform for most of the phthalates but differences of 1 cent to 1½ cent exist in some cases. As of Friday of last week at least four producers had brought out new prices all scheduled to go into effect April 1.

The prime pigments continued to be routine in sales. Lead pigments are reported to be fair while the dry colors and aluminum paste and powder enjoyed sustained demand. Business in the zinc dust market dropped sharply after a good showing at the start of the year. Cutbacks in automobile production accounted for a large share for the decrease in demand.

The Argentine casein market firmed considerably in the last week. Prices scored another ½ cent gain, making the current price 19¾ cents to 20 cents a pound. Shipments are reported to be improving despite the adverse effects of the continuing dock strike in the Argentine. Prices for the other grades of casein are unchanged. Supplies of Australian casein are reported to be very low and reports that two more Australian dairy plants are converting to other forms of dairy production should add to the worsening supply situation.

April 1 Price Advances
Calcium carbonate, $2 per ton
Phthalate plasticizers, 1c. to 2½c. per lb.

The Calcutta market was quiet last week, with prices firm. Upward revisions were proposed by the Indian Lac Exporters Association on the floor and ceiling for export shellac. The proposal would raise the floor put under the shellac market by 1 percent to 6 percent. While importers have the matter under protest, they point out that the present selling price is above the minimum established by the Association. On that basis the proposed revision does not necessarily represent a price change in the market here.

Price Trends

Advanced
Casein, Argentine, ½c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
103.13	103.02	103.03	103.10

For Current Prices See Page 11

Prime Pigments

Aluminum Paste and Powder—Trade sources report that demand has been rising steadily over the last quarter as it gains wider recognition among consumers particularly in the protective coating field. The growth pattern for the paste and powders should provide producers with excellent sales records for the remainder of the year.

Dry Colors—General market conditions remained well sustained this week. Producers report demand at very good levels but somewhat lower than that of a year ago. For the first quarter of last year demand was reported to have been excellent. Prices are unchanged from last week.

Lead Pigments—Routine market conditions continued to prevail in the lead pigments market last week. Demand is fair with prices firm and unchanged.

Titanium Dioxide—The Bureau of the Census reports that production of composite and pure titanium dioxide was 42,572 short tons. While this is only marginally lower than the November figure of 42,934 short tons, it is considerably higher than the output reported or December, 1958. At that time production stood at 38,625 short tons.

Zinc Dust—After a good start at the beginning of the year, demand for zinc dust skidded to a snail's pace. Last week business was well below the levels normal for this time of the year. Cutbacks in automobile production are said to be a principal cause in the falling off in demand. With some increases in automobile production a possibility, the result should be a corresponding rise in zinc dust demand. As an indication of the dormant market, prices are unchanged.

Lacquer Materials

Cellulose Acetate/Butyrate—Sheeting, film and other forms of lacquer manufacture continue to provide excellent sources of cellulose acetate and butyrate demand. Market conditions are generally reported to be routine. Supplies are adequate for all demands with prices schedules holding at the same levels as in the previous weeks.

Nitrocellulose—Over all demand continues to be well sustained. After a brief dip in consumption at the close of '59, business activity scored rapid advances over the first few months of this year. At the close of last week, supplies were said to be adequate and prices unchanged.

Plasticizers—Last week at least three more producers of phthalate plasticizers followed up the price increase announced two weeks ago with new price listings of their own. With some exceptions, the new listings conform with the earlier announcement of 1c. a pound to 1½c. a pound price hikes. There is general agreement on the price of DOP and DIOP which were raised 1 cent a pound to 26c. a pound. But some differences are noted in regard to the listings for dibutyl phthalate where a range of 27½c.-to-28½c. a pound exists, depending on the producers. The higher 28½c. price represents one producer while the majority are content with the lower 27½c. listing. The price for diethyl phthalate also exhibits the split in highs and lows. There, one producer holds with the old price of 25c. a pound while three others have adopted the new price of 26½c. a pound. Other prices are as follows: dioctyl isophthalate, 28c. a pound; dimehtyl phthalate, 26½c. a pound; di 2-methoxyethyl phthalate, 43½c. a pound. All prices are on a tank and delivered basis, and becomes effective April 1.

The supply position of the phthalates continues to show improvement. Business has been slow over the last few weeks but producers believe some increase in demand will result from the usual consumer rush to beat the deadline on the new listings.

Tributyl Aconitate—A leading chemical producer announced last week the development of a new plasticizer, tributyl aconitate. According to the producer this new plasticizer provides excellent light and heat stability for vinylidene chloride homopolymer and for copolymers with vinyl chloride, vinyl acetate, styrene, vinyl cyanide, ethyl acrylate and methyl methacrylate. Tributyl aconitate has also been used as the plasticizer for cellulose acetate and cellulose nitrate lacquers. The low temperature properties of tributyl aconitate make it of interest in other resin systems. In addition, the alkyl aconitates are reported to act as contact insecticides, to assist in preventing bacterial and fungal putrefaction of proteins, and to control fungus diseases on seeds.

The price schedule for tributyl aconitate is: car lots, 450 lb. drums, 62½c. per pound; tank cars, 60c. per pound; tank wagons, 60c. per pound; and drums, l.c.l. 63½c. per pound. All prices are f.o.b. works.

Miscellaneous

Casein—The Argentine market continued to show firm tendencies last week. The firming in the market is taking place despite the disrupting influence of the continuing dock strike there, and the yet to be decided import duty bill here. Proof of the firmness is shown in the ½c. a pound increase Argentine material registered last week. It is the opinion of trade observers that a settlement of the dock strike is being sought with all speed. Even with the strike some shipments do slip through, and the number of shipments leaving the Argentine is reported to be growing as the strike carries on.

The fate of the import duty bill still is undecided as the business of the senate is tied up with the civil rights debate. Only

Coatings Materials

ten days remain before the old bill runs out. As it stands now the old bill will continue to be in force in the event congress fails to act on the new bill. Should the duty be discontinued, then importers would be entitled to a rebate on duty paid after the March 31 deadline.

Some reports were received here concerning the switching of two more plants from casein to other forms of dairy operations in Australian. This should further tighten supplies of this material. Over the last few weeks, the better grades of Australian casein were extremely scarce. Prices are firm but unchanged on all grades of Australian and New Zealand casein.

Natural Resins

Shellac — The Calcutta market was quiet and steady this week. The Indian Lac Exporters have proposed revisions on the export minimum and maximum selling prices for all grades effective April 16. The revised rates would include a 6 percent increase on the export minimum from the present 5 percent. The proposal has met with opposition here but most importers feel that it would be premature to speculate on the effect this proposal would have on selling prices here. The importers give two reasons for their position: the first is that present selling prices are well above the floor established by the Association and the second is that the proposal, should it be adopted, does not in itself represent an increase in prices and must be evaluated in the light of existing market conditions. On that basis consumers will not necessarily be effected by the proposed action of the Association.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Mar. 11	Mon. Mar. 14	Tues. Mar. 15	Wed. Mar. 16	Thurs. Mar. 17
Drums—					
WG	...	...	$12.90	...	...
WW	...	...	13.05	...	...
Bags—					
Tankcars (for week ended March 18)—					
K or better, $11.50					
Sales, USDA			1,412*	...	...

New York

(Per 100 lbs., c.l., Friday)

K-M, $13.20; N, $13.40; WG, $13.70; WW, $14.00

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	...	.51	...	...	...
Sales	...	12,000	...	...	...

* Drums equivalent

Cosmeticians Book Kinter

Earl W. Kinter, chairman of the Federal Trade Commission, will be guest speaker at the sixth annual men's day luncheon of Cosmetic Career Women, to be held April 19 at the Waldorf-Astoria hotel, New York. Mr. Kinter's talk will be entitled, "Truth in Cosmetic Advertising."

DuPont-GM

—Continued from page 4

applied upon determination that there has been an unlawful stock acquisition.

- The court improperly evaluated the factors to be given consideration in determining the relief necessary and appropriate to remedy a violation of section 7 of the act.
- The court erred in concluding that there is no method by which duPont can divest itself of its GM stock undue tax and stockmarket consequences.
- The court erred in its conclusions respecting the stock market consequences of requiring duPont to divest itself of its GM stock.

In support of its arguments for divestiture, the governments appeal petition stated:

"The decisions of this court (Supreme Court) dealing with questions of relief in antitrust cases have established fundamental principles which are controlling here. Where violations of law have been found, the paramount interest to be considered in formulating a decree is the interest of the public that the illegality be effectively removed. To that interest, all other interests must be subordinated."

Soviet Fertilizer Plans

—Continued from page 5

phosphate rock will be expanded significantly and new plants will be constructed.

- Exploitation of rich potash deposits in the Urals, one of the centers of Soviet fertilizer production, is to be stepped-up.

If, say, the Russians follow USDA's seven-year plan instead of their own, ending up with fertilizer output doubled, where will it leave them?

In terms of utilization per sown acre, USDA replies, it would mean that the Soviet Union in 1965 will be using less than half the amount used in the US ten years later.

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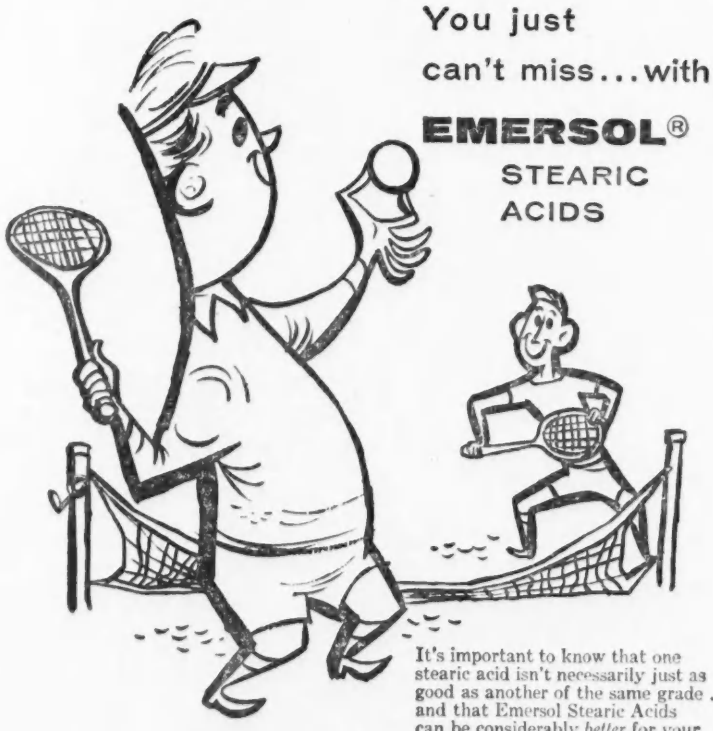

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Oils, Fats and Waxes

Tallow and greases were the strongest materials in the oils and fats market last week, because of improved demand for domestic and export delivery. Sales took place at sharply higher prices for most grades. Offers were scarce and closely held. Crude coconut oil continued unsettled and shipments were off ¼-to-⅜ cent per pound. Moderate business was reported at the lower levels. Copra was quiet and slightly lower.

Peanut oil was the firmest among the edible group, advancing ⅝ cent per pound. Soybean corn and cottonseed remained steady. Lard market was firmer and registered moderate gains.

Olive oil was stronger at primary sources. Replacements from Spain were raised another $2 per 100 kilos, the market reflecting the active interest from Italy and other European countries. Recent export sales has absorbed the major portion of exportable stocks from Spain. The cost of shipments from Greece and Tunisia was above the former source.

Tung oil was stronger and higher because of the higher cost and scarcity of offers from the Argentine. Light stocks here were advanced fractionally for prompt and later delivery. Domestic oil also was higher—for shipment from mills. Oiticica oil continued unsettled and trend of prices continued downward, dropping at least ¼ cent per pound for nearby delivery. Slow demand for Brazilian castor oil has resulted in price shaded for sizable quantities. Lower prices for safflower oil became effective March 15 and were reduced 3/10 cent per pound because of lower freight rates. Crude menhaden was quiet, but producers were maintaining current quotations. Cod oil remained steady because of good demand. Offers from Newfoundland were light and in firm hands.

Soybean meal was stronger and advanced $2 per ton. Cottonseed meal also was higher, up $1 per ton, while linseed meal declined $1.50 per ton.

Price Trends

Advanced

Corn oil, crude, ⅛c. per lb.
Refd., ⅛c. per lb.
Cottonseed meal, $1 per ton.
Greases, ¼-⅜c. per lb.
Lard, cash, 1/10c. per lb.
Oleo oil, ½c. per lb.
Peanut oil, crude, ⅝c. per lb.
Refd., ⅝c. per lb.
Soybean meal, $2 per ton.
Tallow, edible, ¼c. per lb.
inedible, ¼-⅜c. per lb.
Tung, ¼c. per lb.

Reduced

Coconut oil, crude, ⅜c. to ½c. per lb.
Copra, $2.50 per ton.
Linseed meal, $1.50 per ton.
Oiticica oil, ¼c. per lb.
Sassflower oil, 3/10c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Mar. 20, 1959
113.59	113.59	117.96	112.36

For Current Prices See Page 11

Vegetable Oils

Castor—Demand continued light, chiefly for actual needs. Price were without change. No. 1 Brazilian oil was offered at 18c., per pound, tankcars, New York, nearby delivery, but was shadable on a firm bid. Domestic grades were in fair request.

Preliminary estimates place the world's castor oil production in 1960 at 240,000 short tons compared with 225,000 tons in 1959, according to the Department of Agriculture. The castor oil production this year likely will exceed last year's estimated output. Favorable prices and strong demand for beans and oil are expected to encouarge increased production in 1960 in both Brazil and India, the major producing countries, the department added.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last Week	103.500	200.000
Previous week	.....	.....
Corresponding week, 1959	.....	1,924.000
Total this year	1,006.950	18,446.000
Corresponding period, 1959	*6,980.500	*20,950.000

* Corrected.

Coconut—Crude was unsettled and fractionally lower. Sales were reported at 16½c. per pound, tankcars, f.o.b. Pacific coast, March shipment and closed at 16⅝c., asked. April also sold at 16½c., same basis. At New York crude declined to 18¼c., tankcars, prompt delivery and bulk oil to 17¾c., c.i.f.

Corn—Crude was higher with trading at 13¾c. per pound, tankcars, f.o.b. mills, prompt shipment. Refined oil was raised to 17.47c., tankcars, New York, prompt delivery.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, March 18, follow:

	Sales	High	Low	Close
		Cents per Pound		
March	49	11.55	11.36	Expired
May	301	11.67	11.51	11.56S
July	257	11.79	11.79	11.61@11.68S
Sept.	33	11.75	11.57	11.62@11.66
Oct.	59	11.67	11.51	11.56S
Dec.	33	11.63	11.51	11.52S
March (1961)	6	11.70	11.67	11.58@11.62

Total sales and switches, 738 contracts.

Cottonseed—Futures market was a dull affair last week. Trading was light due chiefly to the lack of new developments in the market. Price fluctuations were narrow and the market closed practically unchanged for the period. Export news was lacking. March tenders increased to 168 contracts and were stopped. Cash oil was quiet and steady. Refined salad was quoted at 12½c. per pound, tankcars, New York, prompt delivery.

Trading in crude was light and spotty. Prices were unchanged and well held. Tankcars ranged from 9⅝c. to 9¾c. per pound, tankcars, in the southeast; 9⅞c. to 9½c., Valley; 9¼c., Lubbock and 9⅜c., asked, Waco.

Linseed—Moderate improvement was noted in the call for oil against current contracts, while new business was restricted to fill-in needs. Raw oil was steady at 13½c. per pound, tankcars, Minneapolis, March-June delivery; 13.7c., July-August, same basis and 14.61c., f.o.b. New York.

CCC last week accepted bids for 2,204,600 pounds of raw linseed oil at 9.71c. per pound, bulk f.o.b. Minneapolis for export. The previous sale took place at 9.80c. per pound, same basis. Total sales since February 18 amounted to 18,354,400 pounds.

Oiticica—An easy tone dominated this market, but recent price declines have brought increased interest from users because of the higher cost of tung oil. Prices were unsettled and 17c. per pound, tankcars could have been shaded for nearby delivery. Drums ranged from 19c. to 19¼c. per pound, spot, depending upon quantity.

Olive — Shipments from Spain were stronger and advanced to $54 per 100 kilos, drums, f.o.b. ports for April-May shipment. Good buying interest was reported from European buyers. The cost of Spanish oil was lower than Greek or Tunisian oils which were quoted at $61 per 100 kilos, drums, c. and f., New York for shipment. The local market was unchanged and steady but has not as yet reflected the higher cost of replacements. Oil on spot was held at $2.30 to $2.40 per gallon, drums, duty paid, as to quantity. Sales were reported at this level.

Palm—Demand was slow. Drums were unchanged at the recent decline of ½c. Drums ranged from 14c. to 15c. per pound, spot, according to quantity. Tankcars were unchanged and quoted at 11¾c., New York, spot delivery.

Peanut—Crude was sharply higher with sales at 14⅝c. per pound, tankcars, f.o.b. mills, southeast for prompt shipment. Refined oil was boosted to 17⅞c., tankcars, New York basis.

Farmers' intentions to plant peanuts in 1960 were reported at 1,613,000 acres against 1,653,000 in 1959 and the 1949-58 average of 2,060,000 acres.

Safflower—Lower prices became effective March 15 because of the recent reduction of freight rates. Tankcars were cut to 15.55c. per pound, delivered. Atlantic coast. Drums ranged from 17.55c. to 18c., as to quantity, same basis.

Soybean — Crude was irregular but closed steady. Tankcars for prompt ship-

Oils, Fats and Waxes

ment were quoted at 7⅝c. per pound, Decatur. Refined salad was slightly higher and held at 9.65c., tankcars, New York basis.

Farmers' intentions to plant soybeans in 1960 were reported at 24,667,000 acres compared with 23,178,000 acres in 1959 and the 1949-58 average of 18,127,000 acres.

Tung—This market was stronger because of lack of offers from the Argentine. Tankcars were higher, ranging from 21¾c. to 22c. per pound, New York, prompt delivery, according to seller. Drums were raised to 23¾c. to 24¼c. spot, depending upon quantity. Domestic oil also was firmer and held at 21⅜c. to 21½c. per pound, tankcars, f.o.b. mills, as to delivery.

Miscellaneous

Cocoa Butter—Market was easier, declining 1c. per pound. Spot stocks ranged from 55c. to 60c. per pound, as to quantity.

Copra—Prompt shipment was unsettled and lower. Offers were quoted at $225 per ton, c.i.f. Pacific coast for prompt delivery, with bids $7.50 per ton less.

Flaxseed—Dullness prevailed in this market, offerings virtually non-extistent on the heels of recent sharp advances. Crushers' needs for nearby are well taken care of and there was no aggressive demand. Bids remained at $3.20 a bushel, spot and to-arrive, basis Minneapolis.

Flaxseed crushed in February amounted to 1,458,069 bushels and the total for August through February was increased to 13,795,978 bushels.

Farmers' intentions to plant flaxseed this year were reported at 3,469,000 acres compared to 3,482,000 in 1959 and the 1949-58 average of 4,000,852 acres.

Fats and Greases

Greases—Stronger tone prevailed due to improved trading. Prices were up at least ¼c. per pound. Choice white advanced to 6¾c. per pound, tankcars delivered. Yellow was sold up to 5½c. to 5⅝c., as to acid, same basis.

Lard—Price trend continued upwards. Cash lard advanced to 8¾c. per pound, drums, Chicago.

Tallow—Increased demand for domestic and export boosted the market at least ¼c. per pound. Offers were scarce and closely held. Soapers and exporters bought at the higher levels. Bleachable fancy was firm at 6⅛c. per pound, tankcars, delivered; prime, 6c.; special, 5¾c. and No. 1, 5⅝c., same basis. Edible tallow was raised to 8¼c., same basis. Guaranteed fancy was held at 7½c. per pound, drums, f.a.s. and bulk 1c. less f.o.b.

Fish Oils

Cod—Shipments were strong because of good demand and fewer offers. Available stocks for shipment have been materially reduced. Prompt shipment was firm at 7¼c. per pound, bulk, f.o.b. Gloucester, Mass.

Menhaden—Trading was slow. Export inquiry was more active, while consumers showed little interest in replacements. Crude was steady at 7c. per pound, tankcars, f.o.b. works. Refined light pressed was unchanged at 10c. tankcars, New York basis.

Cake and Meal

Cottonseed Meal — Improved demand and light stocks created a firmer tone. Meal was higher at $60 per ton sacked, Memphis and Alabama; $63 Georgia and $62 Carolina.

Linseed Meal—Trading was of diminished volume in this market on the heels of recent expansion but fair tonnage was booked for nearby shipment and smaller quantities for April-May. Prices dropped $1.50 a ton. Extracted meal, 34 percent protein, was quoted $53.50 a ton, bulk, in carlots, f.o.b., Minneapolis for March, and $55 to $56 for April-May. Old process expeller meal dropped $2 a ton to $65.50 for March-June.

Soybean Meal—This market was stronger, especially in western areas, reflecting moderate improvement in feed business and curtailed meal production. Eastern trunkline lagged on the advance. Prices for unrestricted billing advanced $2 a ton, several western markets rebounding $3 from the low. Meal, 44 percent, was quoted $56 a ton, unrestricted, bulk, Decatur, for prompt shipment.

Waxes, Vegetable

There was little improvement in the tight supply condition of the candelilla wax market. Small lots were received here last week, which were parceled out in small lots among importers, who in turn are doling bag quantities to regular customers. Crude remained firm ranging from 65c. to 72c. per pound, on spot, depending upon seller and quantity. Some 288 bags of crude arrived at New York from Tampico last week and delivered against former orders.

Consuming demand for all waxes continued restricted to actual needs. Carnauba grades were unchanged and steady. No. 3 Ceara crude was quoted at 69c. to 70c. per pound, spot, as to quantity and Parnahyba was 1c. to 2c. more, same basis. Yellows were unchanged. No. 1 Ceara was named at $1.05 to $1.07 per pound, and Parnahyba was 3c. higher.

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1—AT&M 26" susp. Cent., perf. bskt. 316 S.S.
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4—Sperry 36" plate & frame Filters, rubber covered, and wood.
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8—8500 gal. Vertical Storage 8' 6" x 16' x 8' cone.
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7—Dorr Thickeners: 16' dia. with Tanks.
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L. L. Kiefer Is Dead, Executive of NPVLA

Laurence L. Kiefer, executive vice-president of the National Paint, Varnish & Lacquer Association, died March 14 in Washington, D. C., after a long illness. He was fifty-five years old.

Mr. Kiefer's life-time career with NPVLA began in 1926 with the Institute of Paint & Varnish, prior to that group's merger with NPVLA. Mr. Kiefer served with H. A. Gardner Laboratories, a division of the institute.

Laurence L. Kiefer

He was made director of the associations' trade sales division in 1934, and in 1954 was named assistant to the president. He assumed the duties of executive vice-president five years later.

A highlight of Mr. Kiefer's career was his several years' service as acting director of the National Clean Up-Paint Up-Fix Up Bureau, sponsored by the association.

Walter Alexander, senior vice-president of Scientific Design Company, New York, died March 13 in Montclair, N. J. He was forty-six years old.

John B. Hussey, member of the Federal Power Commission and an authority on oil and natural gas, and a strong advocate of curbs on all imports, died March 17 as he was being introduced to speak at the southern district meeting of the American Petroleum Institute in San Antonio, Tex. He was fifty-two years old.

Homer W. Jones, former head of the development division of Linde Company, Newark, N. J., an affiliate of Union Carbide Company died March 12 in Neschanic, N. J.

Capital Spending Keynotes

—*Continued from page 3*

cyclohexane, are expected to account for about 15 percent of the outlay.

From Akron, Ohio, comes word that B. F. Goodrich will shoot for $50 million in new investments this year and keep its finger on that key for four more years. The big chemical and rubber maker wants to invest capital as "heavily and as prudently" as it can.

Smith, Kline & French Laboratories, Philadelphia, spent $121 million on research and development last year and says it is boosting the ante to $13.5 million in 1960.

SK&F plans include emphasis on relatively new areas of research such as antivirals, antibacterials and antifungals.

In addition, the firm has slated new facilities in Australia and expansions for its Mexico City and Montreal subsidiaries.

FDA Cocking Punch

—*Continued from page 3*

adequately regulate proper usage even if it had the authority to do so, a pressing need develops for simpler and faster methods to detect and identify pesticide residues on crops once they enter interstate commerce.

"Over 2 million farmers are using about 600 million pounds of pesticides annually on literally every food crop. Here again, we have a problem of increasing dimensions and one which must be given serious consideration if we are to avoid potential tragedies."

Alkyl Alkanol Amines

—*Continued from page 3*

the plant will make no captive use of the end products.

The growing demand for alkyl alkanol amines and promising prospects for many new uses in the future were listed as the principal reasons for Pennsalt's decision to build the new plant, which is part of the company's long-term specialization in these organic chemicals and their derivatives.

Pennsalt estimates that the new unit will supply the anticipated demand for the next three to five years.

Phenolic May Be Old

—*Continued from page 7*

fords foolproof protection against any and all market buffetings.

One of the most spectacular setbacks—loss of the television cabinet outlet—left hardly a ripple on phenolic sales. And that outlet at its peak represented 20 million pounds of resin a year.

Emergence of new markets within the hard core easily took up the momentary slack, including, ironically, greater use in the electrical portion of television sets.

Mr. Bruce points out that molding compounds accounted for about 207 million pounds of material in 1959. These figures compare with 161 million pounds of molding compounds sold in 1958.

Of the molding markets, wiring devices consume the largest amount of phenolics, Mr. Bruce adds. This category is followed in order by general electrical applications, appliance findings (knobs, handles, etc.), closures, i.e., bottle caps, automotive electrical uses, washing machine agitators, and miscellaneous applications. Consumption by category is as follows:

	In Millions of Pounds		
Market	1958	1959 (Estimated)	1960 (Estimated)
Wiring devices	40	44	44
General electrical devices	30	33	40
Appliance findings	20	24	25
Closures	19	19	19
Automotive electrical devices	10	12	13
Washing machine agitators	10	12	13
Miscellaneous	51	77	77

About 40 million pounds of phenolics was used in laminates in 1958 and 50 in 1959. Of this total, 24 million pounds and 25, respectively, went into decorative laminates—largely a captive market. Additional laminate sales went for such applications as printed circuits, timing devices, gears.

Ethanol From CCC

—*Continued from page 3*

much, could account for some 75-80 million wine gallons of alcohol—an estimated 75 percent of the merchant market.

Publicker, with a rated capacity of 122,750,000 gallons a year of alcohol from fermentation, is, with its good prospects of cheap raw materials for the near future, a sword of Damocles over the whole industry, critics contend.

Further, there's a good deal of feeling that the government has helped Publicker already. Reason: USDA's projected offering of cheap grain may have been a strong factor in the blackstrap contract negotiations with Cuba.

Farm Products Target

—*Continued from page 4*

billion pounds of chemical substances used annually in synthetic rubber, plastics, industrial finishes and coatings, pesticides and cleaning agents."

He said that agriculture should be able to provide more than the present 2 percent of the chemicals going into these products.

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Sparkler-Alsop-Jacob House S S Filters.
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Day 8-40 gallon Pony Mixers—MD.
Colton #2 worm type Filling Machine.
Ribbon Mixers 50-100-200-400-600-1200 lbs.
Stainless Kettles 10-30-40-80-100 gallons.
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Morehouse Mill.
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1—Condenser Service 650 gal. 304 S.S. closed Kettle, 5' x 4', with 100 sq. ft. bayonet heater.
1—1400 gal. Blaw-Knox, steel, jacketed, agitated Reactor.
1—2000 gal. Struthers Wells 316 S.S. jacketed, agtd. Reactors.
2—3200 gal. 316 & 347 S.S., jacketed, agitated Kettles.
1—550 sq. ft. Buflovak, monel single effect Evaporator.
1—7500 gal. 316 S.S. Vert. Storage Tank, 7' x 25', 50 psi.
1—750 gal. nickel clad Mixing Tank, 125# nickel coils.
1—4000 gal. Haveg Vert. Tank 8' x 12'.
1—4000 gal. 316 S.S. clad agitated reactor with coils.
1—1500 gal. Stainless Pressure Tank, 5' x 10', 90#.
1—12,000 gal. horiz. steel Pressure Tank, 7'6" x 36', 200 psi.
6—Stainless Heat Exchangers: 1220, 786, 536, 370, 315, 250 sq. ft.
1—24" dia. x 35', 304 S.S. Bubble Cap Column.

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2—Baker Perkins 36 HS TerMeer S.S. continuous.
1—Sharples C-27 Super-D-Hydrator, 316 S.S.
1—Bird 18" x 28", 316 S.S. Solid Bowl, Continuous.
1—Bird 36" x 50", 347 S.S. Solid Bowl, Continuous.
2—Sharples PY14, PN14, Super-D-Canters, 316 S.S.
1—Tolhurst 32" Suspended, 316 S.S., imperforate basket.
2—AT&M 48" Suspended, 316 S.S. basket.
2—Sharples #16, 304 S.S., 3 HP motor.

MIXERS

1—#12 Sturtevant 304 S.S. Rotary Mixer, 450 cu. ft.
1—Baker Perkins #16TRM, 150 gal. jktd., Vac. 60 HP.
5—Day "Cincinnatus" double arm, 250 and 100 gal.
1—1500# Powder Mixer, 7½ HP XP motor.
2—Steel, jktd. Powder Mixers, 225 and 350 cu. ft.
1—36" Simpson Intensive Mixer.

DRYERS

3—Buflovak Vacuum Shelf with 20—60" x 80" shelves.
1—Devine Vacuum Shelf with 19—59" x 78" shelves.
1—Devine Vacuum Shelf with 10—40" x 43" shelves.
2—Buflovak 42" x 120", atmospheric, double drum.
2—Devine 4' x 9', single drum, atmospheric.
1—Baker Perkins 5'6" x 6' Rotary Vacuum Dryer.
1—Louisville 6' x 45' S.S. Rotary Steam Tube Dryer.
1—Louisville 6' x 45' 316 SS Rotary Steam Tube Dryer.
2—Louisville Rotary Steam Tube 6' x 25', 6' x 50'.
9—Rotary Dryers, 34" x 30', 4' x 40', 6' x 50', 6' x 60', 7' x 80', 8' x 87'.
2—Louisville 8' x 50' Stainless Steel lined Rotary Dryers.
1—Traylor 30" x 18' Stainless Steel Rotary Dryer.
2—Link Belt, 7'5" x 25", 6'4" x 24', S.S. Louvre Dryers.

FILTERS

1—Oliver 6' dia. Horizontal Filter, 316 S.S.
1—Oliver 3' x 6' Steel Rotary Vac. Precoat Filter.
1—Niagara #370.38 Filter, 370 sq. ft., 304 S.S.
2—#49 Vallez Rotating Pressure Filters, 738 sq. ft.
1—Oliver 5'3" x 8' Steel Rotary Vacuum, vaporite housing.
1—Feinc 5' x 6' Stainless Steel Rotary Vacuum Filter.
2—#10 Sweetland Filters, 27 leaves, 4" centers, 250 sq. ft.

MISCELLANEOUS

1—Raymond 10' dia. Single Whizzer Separator.
2—Bantam Mikro Pulverizers, S.S.
1—Ross 6" x 14" Three Roll Mill.
1—J. H. Day 5" x12" Three Roll Mill.
3—Swenson Walker Continuous Crystallizers, 24" x 30' sections.
2—Robinson Sifters, 40" x 84", Stainless.
3—Robinson Gyratory Sifters, 30" x 104", Quadruple Deck.
8—Stokes; DD2, DDS-2, T, "R", and "F" Tablet Presses.
4—Nash Vacuum Pumps; H6, TS7, #2.
25—Chlorimet, Durimet and Duriron Centrifugal Pumps, 1½" to 6".

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4400 C1—Thomas Double Door Gas Heated Oven 36" x 38" x 21½"
38245-5—Freas Electric Ovens complete; 14" x 16" x 16"
4812 D11—Pittsburg Lectrodryer Size 3500 Type BWC 15 PSI with Blower and accessories
D9-580—Buflovak Lab. Size Vacuum Double Drum Dryer; with two Cast Iron Drums 6" x 8"
4912—Witteman Double Drum Atmospheric Dryer; 22" x 38" complete with accessories
D9 G602—Buflovak Twin Drum Dryer in MONEL; 32" x 72"; 10 HP
D9-163—American Double Drum Dryer Model C; 24" x 60" complete
3316—Bagley & Sevell Double Drum Dryer; 28" x 60"
D9-550—Buflovak Stainless Double Drum Dryer 32" x 100" complete
4394—Buflovak Double Drum Dryer 42" x 100" complete
5013 H4—Rotary Cooler 3' x 15' with accessories; on tires
4767 W2—Single Drum Dryer or Flaker 36" x 45" complete
D9-127—Buffalo Vacuum Drum Dryer 5' x 12' with accessories
4493—Buffalo Bronze Drum Flaker or Dryer; 48" x 40" with 10 HP motor
4055 E2—Nickel Plated Drying Drums 4' x 4'
3303—Type 316 Stainless Drying Drum; 32" x 52" cored for steam
655R 6—General American Twin Drum Dryer 42" x 120" with accessories
3994 K3—Stokes Rotary Jacketed Vacuum Dryer; 34" x 10' complete
4877—Alcoa Aluminum Rotary Drum Fermenter 3' x 6'; welded jacketed; manhole (18") each end
D6 A700—J. P. Devine Rotary Jacketed Vacuum Dryer 3' x 8' Teflon Lined complete with accessories
D9-515—Struthers Wells Stainless Single Drum Dryer 5' x 4' complete accessories
D9-511—Buflovak Single Drum Flaker 48" x 28" Jacketed for cooling; 2 HP
4090—Stainless Lined Rotary Counter Current Atmospheric Dryer; 50" x 20' with Oil Burner, Combustion Chamber, etc.
4819 M4—Louisville Stainless Rotary Dryer 30" x 28'; Ind. fired
5147 S8-9—Buflovak & Blaw Knox Rotary Stainless Dryers 54" x 30' and 60" x 30' completely equipped
5147 S10—Monel Rotary Dryer 42" x 30'; 7½ HP Motor; complete
5147 S18—Jacketed Rotary Dryer or Roaster; 42" x 12'; Monel Shaft and Blades
D11-900—Louisville MONEL Rotary Steam Tube Dryer; 54" x 35'
D11 350—Adt Rotary Steam Dryer 3' x 15'; Jacketed & Insulated
D11-158—Huhn Direct Fired Rot. Dryer; 3' x 12' with accessories
D11 A700—Ruggles-Cole Class B 2 Dryer 5½' x 30' complete
D11 H701—Buffalo Rotary Dryer 6' x 45' Monel Liner and Flights with Oil Burner, Furnace and accessories
D11 E300—Hersey Rotary Gas Heated Dryer 3' x 30' complete
D11-702—Link Belt Roto Louvre Dryer; Stainless lined; No. 705-20 complete
3506—Rotary Vacuum Dryer, Agitated 4' x 7'7½"
D6-147—Stokes Model No. 59B Rotary Vacuum Dryer; 3' x 15'
D6-602—Stokes Stainless Steel Jacketed Rotary Vacuum Dryer; 6' x 10'
4819 M5—Louisville Rotary Kiln; 41" x 15' Brick Lined; complete
SPECIAL:—Rotary KILNS all standard manufacture in sizes as follows: 6'x50'; 6'x80'; 6½'x80'; 7'x120'; 7½'x260'; 8'x120'; 10'x 50'; 11'x155'; direct fired or with combustion chambers
5020 S17—Devine Vacuum Shelf Dryer (17 shelf capacity) 40" x 50"
4954 M34—Stokes Vacuum Shelf Dryer (4 shelf 4" centers) 41" x 53"
D15-818—Stokes 15 Shelf Tray Dryer; 39" x 43"
D15 D817—Stokes Vacuum Shelf Dryer 138 J with 18 S S Shelves size 40" x 42" and accessories
D15-900—Devine 6 Shelf Vacuum Dryer 40" x 42"
D15-812—Buflovac Vacuum Chamber Dryer; 7 shelves 42" x 42"
D15-816—Stokes Vacuum Shelf Dryer No. 138H; 8 shelves; 42" x 42"
D15 K820—Devine No. 20 Vacuum Chamber Dryer with 20 shelves 39" x 59" with accessories
4986 C7—Three Sets of Fuller Pulverized Material Coolers; 2 Pass; water cooled; Cap. 50 bbls. cement per hr.

CENTRIFUGALS CLARIFIERS — SEPARATORS

5004—Fletcher Stainless 12" Solid Basket Centrifuge, 2100 RPM; underdriven 5 HP
4256 H2—American Laundry Type 28" Centrifugal Extractor with 28" Copper Perforate Basket
4041 P14—Rubber Cov. Susp. Centrif.; 20" x 18"; Annular Discharge
4330 W2—Tolhurst 26" Centrifugal; Perf. Basket; Plow Dis. 2 speed
4913 G17—Tolhurst 26" Rubber Covered Suspended Centrifuge; perforate basket; bottom dump and plow
1152—McBird 12" Rubber Lined Centrifuge with 40 HP 2 speed motor
1152—Mc—Bird 12" Rubber Lined Centrifuge with Perforate and imperforate Basket
4262 H4—Laundry Type 28" Centrifuge; Copper Perf. Basket; underdriven
4926—Squier 30" Suspended Stainless Steel Centrifugal with perforate basket
5079 D1—Fletcher 30" Stainless Steel Centrifugal; motorized
4093 B11—A. T. & M. Susp. Centrifugal; 40" x 24"; Solid Bowl; Bot. Discharge
C5-191—Tolhurst 26" Suspended with Plow and Scraper; two speed motor
4819 M9—A. T. & M. 30" Solid Basket Susp. Centrifuge extra rubber covered curb & Basket
2945 M4—Tolhurst 40" Overdriven; self balancing with Copper Basket, perforated; 7½ HP motor
C5 B200—A. T. & M. 40" Stainless Suspended Centrifugal perforate basket; bottom dump; 40 HP motor
5147 S12-14—Three Bird Rubber Lined Suspended Type Heavy Duty 40" Centrifugals
4750V—A. T. & M. type 316 S S Vacuum & Pressure Hoods, 60"; link suspended; 15 HP 2 speed motor
4507 A16—Six Tolhurst 40" Suspended type centrifugals Rubber Covered Perforate Basket and Curbs; Monel Plow; 2 Speed Motors; 7½-15 HP
C5-501—A. T. & M. 40" Stainless Steel Centrifuge with immerforate Baffled Basket and Stainless Plough; 40 HP motor
C5-601—Bird 40" Suspended Centrifuge with solid steel Basket; 25-50 HP 2 speed motor
3870M-1—Bird Continuous Conical Centrifugal 18" x 28"
4787—Bird Stainless Conical Bowl Continuous Centrifuge 24" x 28" with 20 HP motor
5147 S6-7—Two Bird 24" Continuous Horizontal Centrifuges in MONEL and Rubber Covered
C7 D530—Bird Stainless Steel Continuous Centrifuge 24" x 28" with 20 HP motor
C5-323—Fletcher 48" Rubber Covered Suspended Centrifugal; Perforate Basket; Hastelloy Plow; 20 10 2 speed motor
C7-131—Baker Perkins Termeer HS 1488 with 40 HP motor
4279 L1—Sharples H2 Nozzlejector; 15 HP XPL; 1000 GPH
C7-500—Sharples Superdehydrator Type BD-C27 in Stainless; 25 HP
3240 M3—Sharples Supercentrifuge M84-21-1JY S S; 3 HP
4737A-18-19—Two Sharples Super Centrifuges Type M85-34-5 with 2 HP motor
5147S4-5—Two Sharples MONEL Super Centrifuges Model M4P
4737 A20-21—Two De Laval Centrifugal Oil Clarifiers; Model 65 N13
4945—De Laval Industrial Hermetic Separator No. VO-244 in Type 316 Stainless with motor
3269—Sharples DeWaxing Centrifuge; Type DM202-23C
3564—Sharples Steel Clarifier Model 4 PIE with 2 HP motor
4081 N22—Patterson-Columbia Separator Centrifuge; Non-Corrosive; 7½ HP
4366—Podbielniak Counter Current Solvent Extractor; Type 316 contact parts
C5-301—Hercules 60" x 22" Rubber Curved Centrifugal with 15 HP XPL motor
4093 B7-9—Three DeLaval Centrifugals Type 94-11 with 2 HP
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Interested in purchasing successful Paint Manufacturing business in Metropolitan New York or New Jersey. Give full details. OPD 944.

SERVICES OFFERED

We buy surplus drums. We also sell reconditioned open head lined and unlined drums, also bung type head filler. New drums all sizes open head and bung type, Polyethylene and stainless steel. OPD 943.

Custom grinding cocoa press cake. Grind to meet customers specifications. Plant within 10 miles of Chicago inland waterway terminal. A. Cramer Corp., 10881 S. Central Ave., Oak Lawn, Illinois.

Custom Grinding Mexico ores including Bentonite, Phosphate, Talc, Fluorspar, etc. Will unload, stockpile, grind, warehouse and reload in cars. Write us for further information. Victoria Gin Company, Inc., P. O. Box 67, Brownsville, Texas.

Bids Wanted

Drugs, 38,592 bots., Meperidine Hydrochloride Injection, 30 cc.; 9,216 bots., Meperidine Hydrochloride injection, 2 cc.; Bid RFP-7055Q, March 28; 259,500 bots., Procaine Penicillin G USP; 15,264 bots., Penicillin G tablets, Bid RFP 7057 Q, March 28, an additional quantity is being set aside of 50 percent for Small Business under a partial set aside. Military Medical Supply Agency, 29th St. and 3rd Ave., Brooklyn 32, N.Y.

Paint and Paint Products, 42,000 gals., Primer Coating, Spec. Mil IGAQTOWOA with GSSO Spec Exception 8010-315, Bid IFB 155-2651-60B, March 28; 15,500 gals., Primer coating, Spec Mil MIL-P-17543 (Ships) with GSS Spec Exception 8010-312, Bid IFB 155-2647-060B, March 28; 5,480 gals., Linseed Oil, various Fed Specs., Bid IFB 155-2659-60B, March 28; 11,216 gals., Varnish, asphalt, Spec. Fed. TT-V-51A, amend 1, Bid IFB 155-2633-60B, March 28, General Stores Supply Office, 700 Robbins Ave., Philadelphia 11, Pa.

Trichlorethylene, estimated quantity, 6,000,060 pounds, packed in drums, 660 pounds per drum. For degreasing purposes only. In accord. with Mil. Spec. MIL-T-7003, dated Sept. 5, 1950. Bid IFB 36-600-60-385, March 29. Directorate, Procurement and Production, Middletown Air Material Area, Olmstead Air Force Base, Pa.

Aluminum Condenser, 350 sq. ft.
4—24" Filter Presses, Stainless Steel fittings, wood frames.
1—24" Filter Press, open delivery.
1—Procter & Schwartz finned Drum Drier.
Continuous Stripping Column 2 x 13.
Aluminum Evaporator, Calandria type, 1300 sq. ft.
Ribbon Blenders, Hydraulic Pumps.
MACHINECRAFT CORP.
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Mitchell 2-7634

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IMPORTS at United States Ports

New York

ACENAPHTHENE—9 dms, F L Kraemer, Rotterdam
ACETIC ACID—22 dms, Fallek Products Co, Bremen
ALGINATES—12 dms, Stein Hall & Co, Glasgow
80 dms, Bremen
ALUMINUM BROMIDE—2 cs, Fischer Scientific Co, Bremen
ALUMINUM FLUORIDE—200 bgs, Efkay Chemical Co, Genoa
ALUMINUM SULFATE—50 bgs, Aceto Chemical Co, Liverpool
AMMONIUM BITUMINO SULFONICUM—20 cs, Chas L Huisking & Co, Hamburg
AMMONIUM CARBONATE—221 dms, AMERCAN Agricultural Chemical Co, Glasgow
AMMONIUM PERSULFATE—100 dms, Bankers Trust Co, Rotterdam
AMYLOPECTIN-G—800 bgs, Stein Hall & Co, Rotterdam
ANNATTO SEED—250 bgs, H Marmorek & Son, Rio de Janeiro
273 bgs, Dura Commodities Corp, Fortaleza
ANTHRAQUINONE—8 dms, Francolor Inc, Havre
ANTIMONY—60 cs, Watson Geach, Liverpool
ANTIMONY OXIDE—44 bgs, Revelli Chemicals Inc, Rotterdam
ANTIMONY REGULUS—1,085 cs, Rijeka
1-ARGININE MONOHYDROCHLORIDE — 6 cs, Ajinomoto Co, Yokohama
ASBESTOS FIBER—2,360 bgs, Johns Manville Corp, Lourenco Marques
ASCORBIC ACID—20 dms, Industrial Chemical & Dye Co, Antwerp
24 dms, Byron Chemical Co, Kobe
BARIUM SULFATE—25 cs, Picker X-Ray Corp, London
BORNYL ACETATE—6 dms, Lo Curto & Funk, Hamburg
BRONZE POWDER—33 dms, L Uhlfelder, Bremen
100 dms, Wm Recht Co, Hamburg
20 dms, Crescent Bronze Powder Co, Hamburg
3 dms, Inco Co, Hamburg
BUTTONLAC—50 bgs, Calcutta
CALCIUM ARSENATE—15 dms, F L Kramer, Hamburg
CALCIUM CARBONATE—600 bgs, Pluess Staufer, Antwerp
3,000 bgs, N H Weitzner, Antwerp
CALCIUM PHOSPHATE—20 dms, Roussel Corp, Marseille
CAMPHOR, SYNTHETIC—224 cs, P H Petry, London
CAMPHOR OIL—10 dms, Grace National Bank, Yokohama
CANDELILLA WAX—38 bgs, Frank B Ross, London
250 bgs, Tampico
CARBON, ACTIVATED—100 dms, Connor Engineering Corp, London
CARBON, DECOLORIZING—70 cs, L A Salomon & Bro, Rotterdam
CARNAUBA WAX—214 bgs, M Argueso & Co, Natal
167 bgs, Cornelius Wax Refining Corp, Natal
334 bgs, S C Johnson & Son, Areia Branca
112 bgs, Irving Trust Co, Fortaleza
251 bgs, Biddle Sawyer Corp, Parnahyba
101 bgs, M Argueso & Co, Parnahyba
125 bgs, Cornelius Wax Refining Corp, Parnahyba
150 bgs, Smith & Nichols, Salvador
189 bgs, Salvador
CASHEWNUT SHELL LIQUID—300 tons, Brazil Oiticica Inc, Fortaleza
CASSIA—1,062 bls, Ludwig Mueller, Rotterdam
588 bls, Knickerbocker Mills, Rotterdam
268 bls, J F Frank, Rotterdam
4,618 bls, Rotterdam
CASTOR BEANS—690 bgs, Baker Castor Oil Co, Bahia de Caraquez
CASTOR OIL—100 tons, First National Minneapolis, Recife
CEDARWOOD OIL—25 dms, Tradesmen Bank, Mombasa
CELERY SEED—170 bgs, Louis Furth, Bombay
144 bgs, M J Golombeck, Marseille
CELERY SEED OIL—5 cs, Magnus Mabee & Reynard, Bombay
CETYL ALCOHOL—100 dms, Olympic Shipping Co, Liverpool
CHAMOMILE FLOWERS—55 cs, Meer Corp, Hamburg
CHARCOAL, ANIMAL—1,000 bgs, National Sugar Corp, Glasgow
CHESTNUT EXTRACT—1,611 bgs, Barkey Importing Co, Genoa
CHLORAL HYDRATE—50 kgs, Gallard Schlesinger, Liverpool
40 kgs, Lo Curto & Funk, Liverpool
CINNAMON QUILLS—25 bls, Mincing Trading Corp, Colombo
CITRONELLA OIL—25 dms, Keelung
CLAY—920 bgs, Cement Import Corp, Bremen
CLOVES—550 bgs, Zanzibar
COBALT OXIDE—290 cks, Antwerp
COBALT SULFATE—220 dms, Advance International Ltd, London
30 dms, London
COCONUT OIL—23 tons, Fallek Products Co, Rotterdam
740 tons, American Trust Co, Cebu
COCONUT OIL, HYDROGENATED—23 tons, Onyx Oil & Chemical Co, Rotterdam
COD OIL—150 dms, Scandinavian Oil Co, Bergen
CODLIVER OIL—30 dms, Arista Oil Products Corp, Bergen
100 dms, Peder Devold Oil Co, Bergen
COLORS, DRY—20 dms, H Solodow, Gothenburg
COPPER CYANIDE—200 dms, Chemical Manufacturing Co, Liverpool
66 dms, National City Bank, Hamburg
110 dms, D Hauser, Hamburg
CORIANDER SEED—875 bgs, Louis Furth, Haifa
CORN STARCH—1,450 bgs, Rotterdam
CREAM OF TARTAR—1,000 bgs, Nylos Trading Co, Leghorn
CRESYLIC ACID—59 dms, Van Oppen & Co, Avonmouth
CRYOLITE, SYNTHETIC—101 bgs, Roth Import Corp, Venice
CUMIN SEED—300 bgs, Manufacturers Trust Co, Khorramshahr
237 bgs, M J Golombeck, Bombay
725 bgs, M J Golombeck, Khorramshahr
1,100 bgs, Delano Corp of America, Khorramshahr
200 bgs, Curacao Trading Co, Khorramshahr
764 bgs, Khorramshahr
CUTTLEFISH BONE—100 cs, D Young, Yokohama
DEXTRIN—327 bgs, Stein Hall & Co, Rotterdam
1,600 bgs, Morningstar Paisley Inc, Rotterdam
365 bgs, Rotterdam
DILL SEED—88 bgs, Louis Furth, Bombay
3,4-DIMETHYLPHENOL—1 dm, Karr Ellis, Manchester
DYES, COALTAR—18 dms, H Bruckmann & Lorbacher, Hamburg
31 dms, Orlex Dyes & Chemical Corp, Hamburg
63 dms, Toms River Cincinnati Chemical Corp, Rotterdam
ETHYL LACTATE—50 dms, Baird Chemical Corp, London
FENNEL SEED—174 bgs, M J Golombeck, Bombay
FERRIC TARTRATE—1 kg, Chemimpex Inc, Bremen
FISHLIVER OIL—10 dms, Chase Manhattan Bank, Yokohama
5 dms, Mitsubishi International Corp, Yokohama
FISHMEAL—6,524 bgs, H J Baker & Bro, Callao
FORMIC ACID—49 dms, Rotterdam
FURFURAL—893 tons, E I Dupont De Nemours & Co, La Romana
GALBANUM OIL—1 cs, Lo Curto & Funk, Hamburg
GAMMA ACID—20 dms, Kaufman & Vinson, Kobe
GELATIN—100 bgs, H Bruckmann & Lorbacher, Rotterdam
50 bgs, T M Duche & Sons, Rotterdam
200 bgs, B Young, London
46 bgs, Gallard Schlesinger, Hamburg
21 cks, M Corbett & Co, Bordeaux
140 bgs, Bank of N Y, Copenhagen
300 bgs, King Shipping Co, Rotterdam
20 dms, D H Burdett, London
64 dms, General Aniline & Film Corp, Hamburg
24 cs, W Koepff, Hamburg
200 bgs, G G Lippelgoes, Liverpool
GERANIUM OIL—10 dms, J Manheimer, London
GINGER—56 bgs, East India Trading Co, Kingston
112 bgs, J H Elton, Kingston
GLUE—300 bgs, Jung Forwarding Co, Liverpool
GLUE, BONE—700 bgs, First National Boston, Hamburg
GLUESTOCK—342 bgs, Clark Ebner & Finkel, Manchester
GLYCERINE—83 dms, R P Casado, Havana
GLYCOL MONOSALICYLATE—6 cs, Havre
GRAPHITE—300 bgs, Joseph Dixon Crucible Co, Bremen
GUAR GUM—200 bgs, T M Duche & Sons, Rotterdam
200 bgs, H Phillips Corp, Genoa
GYPSUM—1,200 bgs, Whittaker Clark & Daniels, Liverpool
400 bgs, C B Chrystal Co, Liverpool
GYPSUM, CRUDE—20,002 tons, U S Gypsum Co, Hantsport
8,046 tons, Allied Chemical Corp, Halifax
HELLEBORE ROOT—150 bls, S B Penick & Co, Rijeka
HEXACHLOROETHANE—300 bgs, Henley & Co, Hamburg
L-HISTIDINE MONOHYDROCHLORIDE—1 cs, Ajinomoto Co, Yokohama
HYDROFLUORIC ACID—30 dms, Liverpool
HYDROXYCITRONELLAL—3 cks, Havre
IODINE, CRUDE—176 kgs, Antony Gibbs & Co, Tocopilla
1,000 kgs, Chilean Nitrate Sales Corp, Tocopilla
24 kg, Mitsubishi International Corp, Yokohama
IRON OXIDE—435 bgs, Reichard Coulston, Malaga
1,100 bgs, C J Osborn Co, Malaga
530 bgs, American Chemical & Pigment Corp, Malaga
600 bgs, Frank D Davis Co, London
IRON POWDER—54 dms, Caldwell & Co, Rotterdam
KARAYA GUM—797 bgs, Stein Hall & Co, Bombay
66 bgs, Block Drug Co, Bombay
LACTALBUMIN—1,260 cs, A J Mills & Co, Wellington
LACTOSE—235 dms, Chas L Huisking & Co, Liverpool
40 dms, Rotterdam
LAVANDIN OIL—35 dms, Tombarel Products Corp, Cannes
LAVENDER OIL, SPIKE—5 dms, L A Champon & Co, Barcelona
LEAD, RED—1,000 bgs, Rotterdam
LEAD, WHITE—460 bgs, Rotterdam
LEMON OIL—2 dms, Ungerer & Co, Vera Cruz
1 dm, Polarome Manufacturing Co, Tampico
6 dms, Ungerer & Co, Tampico
LIME OIL—1 dm, P H Petry, Port Au Prince
2 dms, Port Au Prince
LIGNALOE OIL—1 dm, A Chiris Co, Tampico
LITHARGE—200 dms, Eagle Picher Co, Tampico
LIVER EXTRACT—7 cs, Alkar Trading Co, Genoa
LIVER POWDER—74 bbls, Van Gelder Fanto Corp, Buenos Aires
l-LYSINE MONOHYDROCHLORIDE—14 dms, Ajinomoto Co, Yokohama
MAGNESIUM CARBONATE—50 cs, Chas L Huisking & Co, Genoa
MANGANESE SULFATE—20 bgs, Lo Curto & Funk, Copenhagen
MELAMINE—836 bgs, Liverpool
MENTHOL—25 cs, Tokyo Food Products Co, Kobe
25 cs, J Manheimer, Kobe
50 cs, Lo Curto & Funk, Santos
125 cs, Mitsui & Co, Santos
48 cs, Magnus Mabee & Reynard, London
25 dms, Marseille
158 cs, Rio de Janeiro
MERCURY—100 flks, Leghorn Trading Co, Leghorn
600 flks, J H Schroder, Cadiz
350 flks, Bank of Montreal, Cadiz
200 flks, Cadiz
50 flks, Trieste
METHOXY BUTANOL—55 dms, Wedeman & Godknecht, Rotterdam
MONOSODIUM GLUTAMATE—40 dms, Mercantile Distributing Ltd, Genoa
MUSK, AMBRETTE—2 dms, Lo Curto & Funk, Rotterdam
MUSK, ARTIFICIAL—16 dms, Roure-Dupont Inc, Rotterdam
MUSK, KETONE—2 dms, Lo Curto & Funk, Rotterdam
MUSTARD SEED—513 bgs, C Gulden, Massawa
NAPHTHALENE—333 bgs, J N Forker, Avonmouth
128 bgs, Standard Naphthalene Products Co, Avonmouth
1,862 bgs, Witco Chemical Co, Liverpool
192 bgs, J N Forker, Liverpool
NAPHTHOL—20 dms, Wedeman & Godknecht, Bremen
NUTMEG—217 bgs, Lo Curto & Funk, Rotterdam
125 bgs, National City Bank, Rotterdam
OLIBANUM GUM—27 bgs, Norwalk Mills, Massawa

PALM OIL—762 tons, Balfour Guthrie, Matadi
PALMKERNEL OIL—399 tons, Durkee Famous Foods, Matadi
PAPAIN—44 cs, First National Chicago, Matadi
20 cs, Mombasa
PAPRIKA—200 bgs, M J Golombeck, Hamburg
100 bgs, Gel Spice Co, Hamburg
50 bgs, P H Petry, Lisbon
PEPPER, BLACK—280 bgs, J F Frank, Singapore
200 bgs, Atlanta Textile Corp, Belem-Para
700 bgs, Otto Gerdau, Belem-Para
240 bgs, Atlanta Textile Corp, Cochin
400 bgs, A G Dunn, Cochin
960 bgs, Cochin
140 bgs, Singapore
PEPPER, RED—100 bgs, Mitsubishi International Corp, Yokohama
400 bgs, California Commodities Corp, Kobe
100 bgs, California Commodities Corp, Yokohama
101 bgs, Port Sudan
PEPPER, WHITE—100 bgs, M J Golombeck, Belem-Para
100 bgs, K H Landes & Co, Belem-Para
70 bgs, A G Dunn, Singapore
PEPPERMINT LEAVES—30 cs, Lo Curto & Funk, Hamburg
PETITGRAIN OIL—11 dms, Chase Manhattan Bank, Buenos Aires
PHOSPHONITRILIC CHLORIDE—5 cs, Hooker Chemical Corp, Liverpool
a-PICOLINE—53 dms, Reilly Tar & Chemical Corp, Rotterdam
79 dms, Rotterdam
POLLACKLIVER OIL—50 dms, National City Bank, Yokohama
POLYVINYL CHLORIDE—600 bgs, Miny Corp, Genoa
192 bgs, Rotex Plastics Co, Liverpool
313 cs, Robeco Chemicals, Yokohama
POTASSIUM FERROCYANIDE—500 bgs, Haras Co, Rotterdam
a-PROPANOL—12 dms, Rotterdam
PYRETHRUM EXTRACT—60 dms, S H Penick & Co, Mombasa
100 dms, Mombasa
PYRETHRUM FLOWERS—500 bls, Mombasa
PYRIDINE—42 dms, Van Oppen & Co, Avonmouth
QUINADINE—8 dms, F L Kramer, London
QUINCE SEED—20 bgs, Khorramshahr
QUINIDINE SULFATE—9 cs, Hamburg
RAPESEED OIL—409 tons, Smith-Weihman Co, Karishamn
SACCHARIN—20 dms, Frank Samuel & Co, Yokohama
SAGE LEAVES—500 bls, Louis Furth, Rijeka
450 bgs, Trieste
SAGE OIL—2 bbls, Ungerer & Co, Rijeka
SANDALWOOD OIL—7 cs, Van Ameringen Haebler, Bombay
7 cs, Givaudan Corp, Bombay
SASSAFRAS OIL—23 dms, Manton Trading Corp, Itajai
SEEDLAC—250 bgs, Gillespie Rogers Pyatt, Calcutta
1,000 bgs, Calcutta
SENNA LEAVES—300 bls, Meer Corp, Tuticorin
SODA ASH—117 bbls, Antwerp
SODIUM CYANIDE—100 dms, Chemical Manufacturing Co, Liverpool
120 dms, Usine Industries, Havre
SODIUM LAURYL SULFATE—100 cks, Manchester
SODIUM PERBORATE—1,500 bgs, Samincorp, Rotterdam
SODIUM PERBORATE TETRAHYDRATE—500 bgs, Chemical Manufacturing Co, Liverpool
500 bgs, London
SODIUM SILICOFLUORIDE—600 bgs, Riches Nelson, Rotterdam
SODIUM SULFATE, ANHYDROUS—7,000 bgs, Lo Curto & Funk, Antwerp
STYRAX—27 cs, Meer Corp, Beirut
TALC—7,630 bgs, Charles Mathieu, Genoa
TAPIOCA—660 bgs, Morningstar Paisley Inc, Itajai
TAPIOCA FLOUR—1,833 bgs, Manhattan Adhesives Corp, Itajai
400 bgs, American Key Products, Itajai
TARTARIC ACID—60 dms, Frank Samuel & Co, Marseille
100 bgs, Frank Samuel & Co, Marseille
500 bgs, Leonhardt & Brush, Barcelona
THEOBROMINE—5 dms, P H Petry, Rotterdam
2 dms, Frank Samuel & Co, Antwerp
29 dms, European Chemical Co, Rotterdam
THYME OIL—1 dm, L A Champon & Co, Barcelona
TITANIUM DIOXIDE—1,700 bgs, Chemore Corp, Genoa
TITANIUM DIOXIDE, ANATASE—882 bgs, Marubeni Iida Co, Kobe
TOLUENE-2,4-DIAMINE—10 dms, Aceto Chemical Co, Rotterdam
TRICHLOROETHYLENE—470 tons, Chemical Manufacturing Co, Liverpool
30 dms, Gothenburg
ULTRAMARINE, RED—40 bgs, Whittaker Clark & Daniels, London
UREA—1,000 bgs, Nylos Trading Co, Genoa
684 bgs, H A Gogarty, Rotterdam
VANILLA BEANS—4 cs, Otto Gerdau, London
26 cs, Zink & Trieste, Marseille
VETIVER OIL—2 kgs, John D Walsh Co, Fort Au Prince
3 dms, Port Au Prince
WATTLE EXTRACT—652 bgs, Barkey Importing Co, Mombasa
ZINC CHLORIDE—42 dms, Riches Nelson, Antwerp
ZINC DUST—10 dms, Frank D Davis Co, London
ZINC OXIDE—1,000 bgs, Aceto Chemical Co, Liverpool

Los Angeles

CARAWAY SEED—150 bgs, B C Ireland, Amsterdam
CASEIN—300 bgs, Borden Co, Buenos Aires
CINNAMON QUILLS—25 bls, McClintock Stern & Co, Kobe
FERROUS SULFATE—500 bgs, Kobe
FISHLIVER OIL—3 dms, Interocean Chemical & Minerals Corp, Yokohama
LOCUST BEAN GUM—45 dms, T M Duche & Sons, Amsterdam
PEATMOSS—1,000 bls, J Schumacher, Bremen
PEPPER, RED—200 bgs, Hismoco American Co, Yokohama
200 bgs, T P Gonzales, Yokohama
300 bgs, Kobe
POLVINYL CHLORIDE RESIN—400 bgs, American Commercial Co, Kobe
SESAME SEED—100 bgs, Nieman Bros, Corinto
50 bgs, W R Grace & Co, Corinto
SODIUM BORATE—400 bgs, J G Wiley, Antwerp
TAPIOCA FLOUR—672 bgs, Stein Hall & Co, Bangkok
1,340 bgs, Morningstar Paisley Inc, Bangkok

Philadelphia

BONEMEAL—5,000 bgs, Kind & Knox, Calcutta
CASEIN—300 bgs, National Casein Co, Buenos Aires
CETYL ALCOHOL—5 dms, A & S Corp, Kobe
GYPSUM, CRUDE—6,029 tons, U S Gypsum Co, Hantsport
MANNITOL—260 bgs, Sydney
PYRETHRUM FLOWERS—500 bls, Mombasa
QUEBRACHO EXTRACT—2,200 bgs, Tanimex Corp, Buenos Aires
SODIUM NITRATE—300 tons, Morgan Guaranty Trust Co, Tocopilla

Food Additives: FDA Extensions To Nearly 500

—*Continued from page 38*

Diethylene glycol dibenzoate.
Diethylene glycol ester of resin.
Diethyl oxalate.
Diglycol laurate.
Dihydroxy abietyl phthalate.
Dihydroxydichlorodiphenyl methane.
Dimethyl phthalate.
Dimethyl polysiloxane.
Dioctyl phthalate.
Dioxane.
Diphenyl phthalate.
Dipropylene glycol dibenzoate.
Epsom salt.
Ethyl acetate.
Ethyl alcohol.
Ethyl cellulose.
Ethylene glycol.
di(2-Ethylhexyl) hexahydro phthalate.
Ethyl lactate.
Ethyl-para-toluene sulfonamide.
Formaldehyde.
Formic acid.
Gelatin.
Glue (animal).
Glycerine ester of hydrogenated rosin.
Glycol fatty ester polymer.
Glyoxal.
Heptane.
Hexane.
Hexylene glycol.
Hydroabietyl alcohol.
Hydrofluosilicic acid.
Hydroxyacetic acid.
Hydroxyethyl cellulose.
Isopropyl acetate.
Isopropyl alcohol.
tetra-Isopropyl titanate.
Latex (natural).
Lauryl alcohol sulfate.
Lauryl and myrstyl alcohols (sodium salts of sulfate monoester).
Magnesium chloride.
Methanol.
Methyl acetate.
Methyl acetyl ricinoleate.
Methyl carbitol.
Methyl cellosolve.
Methylcellulose.
2,2-Methylene-bis-4-ethyl-6-tertiary-butyl phenol.
2,2-Methylene-bis-4-methyl-6-tertiary-butyl phenol.
Methylene chloride.
Methyl ester of hydrogenated rosin.
Methyl ethyl ketone.
Methyl phthalyl ethyl glycolate.
Mineral oil.
Montan wax.
Morpholine.
Naphtha.
Neoprene latex.
Nitrocellulose.
Oleic acid.
Oleic acid and polyethylene glycol.
Oxazoline.
Ozocerite wax.
Parachloroethylene.
Phenol.
Alpha-pinene resin.
Polyalkylated phenol monosulfide.
Polyalkylene glycol ether.
Polyamide.
Polybutene.
Polyethylene.
Polyisobutylene.
Polylactyl.
Polyoxyethylene oleate.
Polyoxyethylene (4-phenol).
Polyoxyethylene sorbitan monolaurate.
Polyoxyethylene sorbitan monopalmitate.
Polyoxyethylene sorbitan monostearate.
Polyoxyethylene (40) stearate.
Polystyrene.
Polyvinyl acetate resin.
Polyvinyl alcohol.
Polyvinyl butyral.
Polyvinyl methyl ether.
Propylene carbonate.
Propylene glycol monococate.
Alpha-protein soybean.
Rosin (decarboxylated).
Rosin derivative (dymerex).
Rosin, gasoline-insoluble fraction.
Rosin glycerol ester, polymerized.
Rosin, hydrogenated wood, glycerin ester.
Rosin gum emulsion.
Rosin methylester.
Rosin modified with ammonium caseinate.
Rosin, pentaerythritol esters.
Rubber, butyl.
Shellac.
Silica (also colloidal).
Sodium alkyl amyl sulfonate.
Sodium carboxymethylcellulose.
Sodium decylsulfate.
Sodium dioctyl sulfosuccinate.
Sodium dodecylbenzene sulfonate.
Sodium 2-ethylhexyl sulfate.
Sodium formate.
Sodium metaborate.
Sodium nitrate.
Sodium nitrite.
Sodium ortho-phenylphenate.
Sodium perborate.
Sodium polyacrylate.
Sodium salts of dimethyl dithiocarbamic acid and 2-mercaptobenzothiazole.
Sodium silicate.
Sodium tetradecylsulfate.
Sorbitan monooleate.
Sorbitan monopalmitate.
Sorbitan monostearate.
Stearato chromic chloride.
Sulfonated castor oil.
Talc.
Tall oil soaps.
Terphenyl.
Ortho- and para-Ttoluene ethyl sulfonamide.
Toluol.
Tributyl citrate.
Tributyl phosphate.
Trichloroethylene.
Teiethanolamine.
Urea.
Urea formaldehyde resins.
Xylol.
Zinc oxide.
Zinc sulfate.

Direct Additives

Below are listed sixteen direct food additives granted one-year time extensions together with the limits within which they may be employed and the uses and restrictions specified by FDA:

Butyl rubber (chewing gum grade) without inhibitor, as a constituent of chewing gum base.

para-Coumarone, as a constituent of chewing gum base.

Coumarone-indene resin, as a constituent of chewing gum base.

Ester gums (rosin or hydrogenated rosin reacted with glycerin or pentaerythritol and polymers), as a constituent of chewing gum base.

Gums, (natural) of vegetable origin, as a constituent of chewing gum base.

Isobutylene resin, as a constituent of chewing gum base.

Lanolin, as a constituent of chewing gum base.

Latex (butadiene-styrene rubber), as a constituent of chewing gum base.

Methyl ester of rosin (hydrogenated), as a constituent of chewing gum base.

Mineral oil (including petrolatum), 600 parts per million in total ration, as a lubricant or dust-control agent in bulk animal feed and pelletized animal feed, including salt blocks for animal use.

Mineral oil (including petrolatum), 35 parts per million on fresh fruits and vegetables, as a protective coating on fresh fruits and vegetables.

Petroleum hydrocarbon resin, as a constituent of chewing gum base.

Polyethylene, as a constituent of chewing gum base.

Rubber (natural), smoked sheet and latex solids, as a constituent of chewing gum base.

Terpene resin, as a constituent of chewing gum base.

Wax, microcrystalline and paraffin:

Type I: A congealing point of 190° F. maximum (ASTM D-938), an absorptivity at 290 mu of 0.04 liter per gram centimeter maximum (ASTM E-131), an oil content of 1.5% maximum (ASTM D-721), and a Saybolt color of 20 minimum (ASTM D-156), as a coating on fruits, vegetables, and cheese, as a masticatory substance in chewing gum.

Type II: Absorptivity at 290 mu of 1.0 maximum, an oil content of 5.0 percent maximum, and a color of 3.0 maximum (ASTM D-1500), as a coating on fruits, vegetables, and cheese. As a masticatory substance in chewing gum.

Indirect Additives

Following are nine indirect food additives granted one-year extensions together with the limits within which they may be employed and the uses and restrictions specified by FDA:

Mineral oil (including petrolatum), 150 parts per million in food, as a migrant when used as a component of packaging materials, excluding confectionery.

Mineral oil (including petrolatum), 10 parts per million in food, as a lubricant in tableted, capsulated, or extruded food, excluding confectionery.

Mineral oil (including petrolatum), 50 parts per million in meat, as a lubricant in meat-packing plants.

Mineral oil (including petrolatum), 200 parts per million in dried fruits and vegetables, as a release agent in drying pans in preparing dried fruits and vegetables.

Mineral oil (including petrolatum), 1,500 parts per million in bakery products, in baking industry as dough-divider oil, pan oil and trough grease.

Mineral oil (including petrolatum), 1,000 parts per million in dried egg albumin, as a release agent in drying pans in preparing dried egg albumin.

Polyethylene, as a migrant when used as a component of food-packaging materails.

Wax, microcrystalline and paraffin:

Type I: A congealing point of 160° F. maximum (ASTM D-938), an absorptivity at 290 mu of 0.04 liter per gram centimeter maximum (ASTM E-131), an oil content of 1.5 percent maximum (ASTM D-721), and a Saybolt color of 20 minimum (ASTM D-156), as a constituent of food-packaging materials and protective coatings; as a lubricant or release agent.

Type II: Absorptivity at 290 mu of 1.0 maximum, an oil content of 5.0 percent maximum, and a color of 3.0 maximum (ASTM D-1500), as a constituent of food-packaging materials and protective coatings; as a lubricant or release agent.

Advertisers' Index

Acme Hardesty Co. ... 57
Alan Wood Steel Company ... 44
Allied Chemical Corporation—Plastics & Coal Chemicals Division ... 43
Allied Chemical Corporation, Solvay Process Division ... 31
American Agricultural Chemical Co., The ... 1
American Lignite Products Co. ... 57
American Mineral Spirits Company ... 64
Arapahoe Chemicals, Inc. ... 48
Archer-Daniels-Midland-Company, Chemical Products Division ... 38
Arizona Chemical Company ... 56
Armour Pharmaceutical Company ... 48
Ashcraft-Wilkinson Co. ... 41

Baker, J. T., Chemical Co. ... 1
Barclay Chemical Company, Inc. ... 62
Barcan, Irving Company ... 58
Bareco Wax Co. Division Petrolite Corporation ... 53
Basic, Inc. ... 35
Beeco Chemical Division, Food Machinery & Chemical Corp ... 36, 38
Berkshire Chemicals, Inc. ... 36
Better Finishes & Coatings, Inc. ... 34
Bios Laboratories, Inc. ... 49
Blockson Chemical Company ... 34
Bower, Henry, Chemical Mfg. Co. ... 36
Bowman, Charles, & Co. ... 47
Brill Equipment Company ... 58, 59
Brode Corporation, The ... 57
Bunge Corporation ... 57

Celanese Corporation of America, Chemical Division ... 64
Chemical & Process Machinery Corp. ... 61
Chemical Service Corp. ... 62, 64
Chemical Solvents, Inc. ... 64
Chemsol, Inc. ... 62
Church & Dwight Co., Inc. ... 37
Clintbrook Chemical Company ... 47
Columbia Southern Chemical Corporation ... 34
Commercial Solvents Corporation ... 6
Concord Chemical Company ... 64
Coupe, Robert A. ... 35
Cowles Chemical Company ... 64

Davies Can Co., The ... 36
Dawe's Laboratories, Inc. ... 49
Distillation Products Industries, Div. of Eastman Kodak Company ... 40
Dixon Chemical & Research, Inc. ... 10
Dow Chemical Company, The ... 35, 39, 45, 46
Dunkel, Paul A., & Company, Inc. ... 48
DuPont de Nemours, E. I., & Co., (Inc.) ... 38, 43
Duval Sulphur & Potash Co. ... 41

Eastern Color & Chemical Co. ... 62
Eastman Chemical Products, Inc. ... 13, 54
Emery Industries, Inc. ... 56
Enjay Company, Inc. ... 25
Equipment Clearing House, Inc. ... 61

Fezandie & Sperrle ... 54
Filter Fabrics, Inc. ... 55
First Machinery Corp. ... 59
Florasynth Laboratories, Inc. ... 51
Food Machinery & Chemical Corporation, Chemicals & Plastics Division ... 55
Fritzsche Brothers, Inc. ... 51

Gane's Chemical Works, Inc. ... 47
Gelb, R., & Sons, Inc. ... 61
General Equipment & Trading Co. ... 60
Gillespie-Rogers-Pyatt Co., Inc. ... 54
Giegff, R. W., & Co. ... 1, 49
Gross, A., & Company ... 57
Gulf Oil Corporation ... 44

Harchem Division, Wallace & Tiernan, Inc ... 40
Harshaw Chemical Co., The ... 40, 48
Heat & Power Co., Inc. ... 58
Heine & Company ... 24
Hercules Powder Company, Incorporated ... 17
Heyden Newport Chemical Corporation ... 29
Hoffmann-La Roche, Inc. ... 46, 52
Hooker Chemical Corporation ... 38
Hooker Chemical Corporation, Phosphorus Division ... 35
Hutchinson, D. W., & Co., Inc. ... 51

International Petrosolvents, Inc. ... 39

Jasper Machinery Company, Inc. ... 58

Kahn Equipment Company ... 60
Kay-Fries Chemicals, Inc. ... 40
Koppers Company, Inc., Tar Products Division ... 42

Laplace, L. J., & M. ... 35
Lawler Company ... 61
Lebanon Chemical Co. ... 41
Lemke, B. L., & Co., Inc. ... 48
Lever Brothers Company ... 39
Loeb, H., & Son ... 61
Loeb Equipment Supply Co. ... 61
Lucidol Division, Wallace & Tiernan, Incorporated ... 40

Machinecraft Corp. ... 58, 62
Machinery & Equipment Company ... 58, 60, 61
Machinery & Equipment Co., The ... 60
Magnus, Mabee & Reynard, Inc. ... 51
Mallinckrodt Chemical Works ... 18, 19
Manion Steel Barrel Company ... 37
Merck & Co., Inc. ... 37
Michigan Chemical Corporation ... 20
Minute Maid Corporation, Citrus Products Division ... 50
Mississippi Lime Company ... 36
Mutual Citrus Products Company ... 23

National Casein ... 55
New Jersey Zinc Company, The ... 55

Orlex Dyes & Chemicals Corp. ... 36
Oronite Chemical Company ... 27

Penick, S. B., & Company ... 51
Pennsalt Chemicals Corporation, Industrial Division ... 1
Pennsylvania Refining Company ... 53
Perry Equipment Corp. ... 60
Petro-Tex Chemical Corporation ... 8
Pfizer, Chas., & Co., Inc. ... 33
Pharmacaps, Inc. ... 49
Philipp Brothers Chemicals, Inc. ... 38
Plastics and Coal Chemicals Division, Allied Chemical Corporation ... 43
Polyvinyl Chemicals, Inc. ... 55
Potash Company of America ... 41
Prior Chemical Corporation ... 1
Process Plants Service, Inc. ... 60
Procter & Gamble Co. ... 39
Publicker Industries, Inc. ... 40

Rambach Chemical Company ... 62
Raney Catalyst Co. ... 40
Read, Chas. L., & Co., Inc. ... 54
Republic Steel Corporation ... 44
Richter, Gedeon Pharmaceutical Products, Inc. ... 47
Rosenthal's, Joseph, Sons, Inc. ... 58
Ross, F. H., & Co. ... 35
Ross, Frank B., Company ... 57

Foster D. Snell, Inc. ... 64
Spencer Kellogg & Sons, Inc. ... 57
Stauffer Chemical Company ... 30
Stein Equipment Co. ... 60
Sterwin Chemicals, Inc. ... 52
Strohmeyer & Arpe Co. ... 57
Sunkist Growers, Inc. ... 22
Syntex Chemical Company, Inc. ... 26

Tennessee Corporation ... 15
Texas Gulf Sulphur Co., Inc. ... 36
Todd, A. M., Company ... 48
Turner, Joseph, & Co. ... 38

Union Carbide Chemicals Company, Division of Union Carbide Corporation ... 2
Union Standard Equipment Co. ... 58
United Box & Lumber Co. ... 41
U. S. Borax & Chemical Corporation ... 1
United Ultramarine & Chemical Company, Inc. ... 55

van Ameringen-Haebler, Division of International Flavor & Fragrances, Inc. ... 52

Western Condensing Co. ... 21
Will & Baumer Candle Co., Inc. ... 57
Wolf, Bill, Inc. ... 61
Wyandotte Chemicals Corporation ... 45

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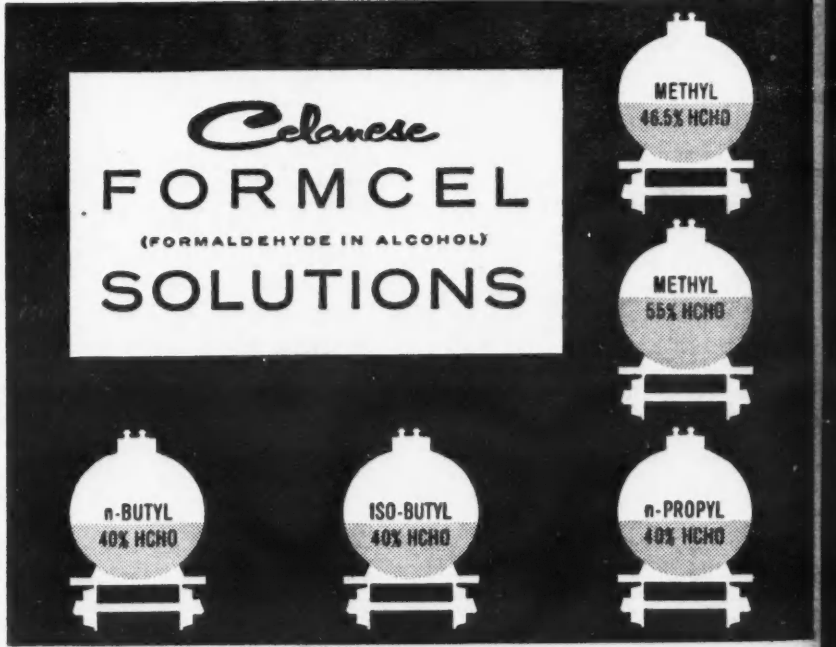

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